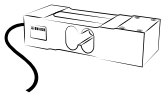
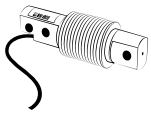
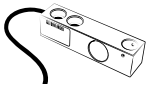
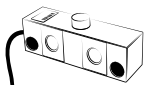
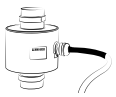
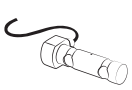
LOAD CELLS & WEIGHT TRANSMITTERS

CATALOGUE

DINI ARGEO
Scales - Weighing systems
A RICE LAKE WEIGHING SYSTEMS COMPANY

DINI ARGEO

		Capacity (kg)	Max load surface (mm)	Stainless Steel	ATEX	IP68	IP69K	Digital	Accuracy	Code	
OFF-CENTER		3 ... 40	300 x 300		●				C3	SPO	p. 6
		3 ... 75	350 x 350							SPD	p. 7
		10 ... 200	600 x 600		●				C3	SPG	p. 8
		7 ... 36	450 x 450		●				C6	SPG C6	p. 9
		100 ... 500	600 x 600		●				C3	SPM	p. 10
		100 ... 630	700 x 700		●				C3	SPBC	p. 11
		300 ... 750	800 x 800		●				C3	SPN	p. 12
		7,5 ... 200	500 x 400	●		●	●		C3	SPSW	p. 13
		50 ... 100	500 x 400	●	●				C3	SPSY	p. 14
		100 ... 500	800 x 800	●					C3	SPSX	p. 15
		500 ... 1000	800 x 800	●	●	●			C3	SPSZ	p. 16
BENDING BEAM		10 ... 500		●	●	●			C3	FXC	p. 18
		20 ... 200		●		●			C6	FXC C6	p. 20
		10 ... 500		●	●	●			C3	FXD	p. 22
		MOUNTING KITS									p. 24
SHEAR BEAM		500 ... 2000			●				C3	SBT	p. 28
		500 ... 10 t		●	●	●			C3	SBX	p. 30
		500 ... 2000		●	●	●			C6	SBK C6	p. 32
		MOUNTING KITS									p. 34
DOUBLE SHEAR BEAM		25 t ... 40 t			●	●			C3	RSBT	p. 40
		10 t ... 30 t		●	●	●			C4	DSBI	p. 41
		MOUNTING KITS									p. 42
TENSION		2000 ... 10 t		●		●			C3	STU 1K	p. 44
		2000 ... 10 t			●				C3	STFC	p. 46
		15 ... 1000							C3	SL	p. 48
COMPRESSION		250 ... 100 t		●	●	●			C3	CPX	p. 50
		250 ... 300 t		●		●		●	C3	CPX-D	p. 52
		150 ... 500 t		●	●	●			C3	CPA	p. 54
		50 t ... 1000 t		●						CPH	p. 56
		MOUNTING KITS									p. 58
COLUMN		30 t		●	●	●			C4	RCA	p. 66
		20 t ... 50 t		●			●		C6	RL5426 PLUS	p. 67
		20 t ... 50 t		●			●		C4	RL5416	p. 68
		20 t ... 50 t		●	●	●			C3	RCPT	p. 69
		30 t ... 50 t		●		●		●	C4	RCD	p. 70
		30 t ... 40 t		●		●		●	C6	RL5426DC	p. 71
		30 t ... 40 t		●		●		●	C4	RL5416DC	p. 72
		30 t		●		●		●	C4	RCPTD	p. 73
		MOUNTING KITS									p. 74
LOAD PINS		FULLY CUSTOMIZED									p. 76
OTHER		**JUNCTION BOXES**									p. 78
		ZENER BARRIERS									p. 80
		CABLES									p. 81


DINI ARGEO
A RICE LAKE WEIGHING SYSTEMS COMPANY

LOAD CELL AND WEIGHT TRANSMITTER MANUFACTURER

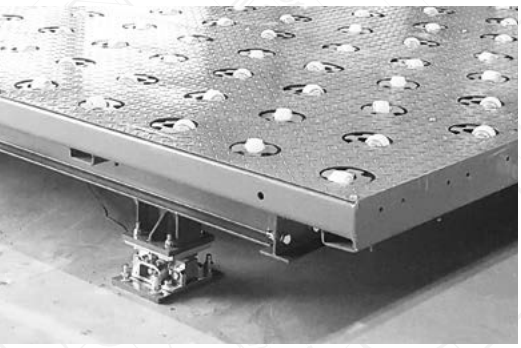
Dini Argeo designs and manufactures load cells and weighing sensors that stand out for their high quality and ease of installation. Through its production lines and highly qualified specialized partners, Dini Argeo is able to produce load cells of every type and for every need, from precision weighing to safety control.

This catalogue contains a complete range of load cells with standard dimensions and capacities, designed by Dini Argeo to suit most weighing applications. Dini Argeo also offers a design and development service for special load cells, please contact our sales department for more information.

For over 20 years Dini Argeo has been producing weight transmitters of the DGT series that stand out for their reliability and reading accuracy in automated industrial weighing systems.

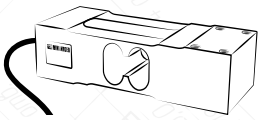
DGT transmitters are manufactured and designed in Italy by Dini Argeo and feature all the latest technologies available on the market.

Thanks to its team of highly qualified engineers, Dini Argeo is also able to develop fully customised, certified weighing electronics and firmware in compliance with international standards.



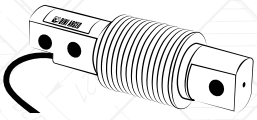
OFF-CENTER

Dini Argeo Off-Center/Single Point load cells are ideal for creating weighing areas with optimal measurement accuracy in any point. They are the best solution to create micro dispensers, weighing platforms, plates and belts at competitive prices.
Thanks to their mechanical features, Off-Center load cells are particularly reactive and suitable for fast and dynamic weighing. They can be used both individually (single load cell systems) and in connection (systems with multiple load cells).



BENDING BEAM

Dini Argeo Bending Beam load cells combine the reactivity and accuracy of Off-Center/Single Point load cells with the strength of Shear Beam ones.
The secret to achieving optimum accuracy with Bending Beam load cells is to apply the force in a specific point; for state-of-the-art installations, both in static and dynamic applications, Dini Argeo offers a complete range of mounting accessories. They are the best solution to create weighing roller conveyors.
Ideal for systems with multiple load cells.

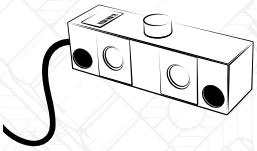


SHEAR BEAM

Dini Argeo Shear Beam load cells are the ideal solution to weigh medium capacity silos and hoppers and to create systems with multiple load cells, such as floor platforms.
The secret to achieve optimum accuracy with Shear Beam load cells is to apply the force in a specific point; for state-of-the-art installations, both in static and dynamic applications, Dini Argeo offers a complete range of mounting accessories. Ideal for systems with multiple load cells.

DOUBLE SHEAR BEAM

Dini Argeo Double Shear Beam load cells have the same features as Shear beam load cells but with much higher load capacities.
They find application in large capacity silo weighing and are the best choice for the construction of weighbridges. Ideal for systems with multiple load cells.

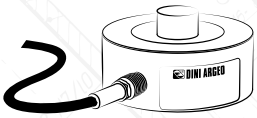


TENSION

Dini Argeo Tension / Compression load cells are perfect for weighing suspended loads or for measuring tensile or compressive forces, breaking loads or weight peaks.
They represent the easiest solution to weigh a hopper, a big bag or any other load that has an irregular shape.

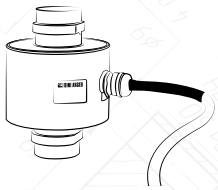
COMPRESSION

Dini Argeo Compression load cells are the best solution to weigh medium and large capacity silos, hoppers and tanks.
The particular compact shape that characterises them is designed to weigh without mechanical bending, making them very robust and resistant even to extreme stress.
Dini Argeo mounting kits for Compression load cells make them particularly easy to install under the structure to be weighed.



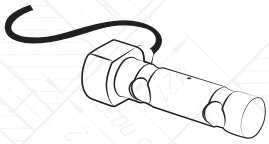
COLUMN

Dini Argeo Column load cells are ideal for the construction of weighbridges and large capacity silos weighing. Their shape allows the load to oscillate within the set limits and always return to its original position for optimum weighing. This feature is indispensable in the manufacture of state-of-the-art weighbridges.
Using Dini Argeo assembly kits, these load cells can accurately weigh large capacity silos and hoppers.



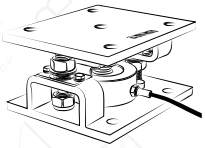
LOAD PINS

The advantage of the weighing pin is that it can be installed in place of an existing mechanical pin around which the movement of a part of the machinery takes place.
The weighing pin is made to measure, with mechanical resistance characteristics compatible with those of the existing pin.
It is used in moving applications such as mechanical lifting booms, cranes, overhead cranes, AGVs, on-board weighing and agricultural wagons.



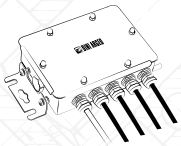
MOUNTING KITS

Dini Argeo mounting kits are designed to simplify the application of load cells to the structures to be weighed, ensuring the best weighing performance.
Each accessory offers precise features that make it ideal for specific applications, from belt and roller conveyor scales to the weighing of large capacity silos and hoppers.



JUNCTION BOXES

Dini Argeo offers a complete range of junction boxes and accessories to connect load cells to weighing electronics.

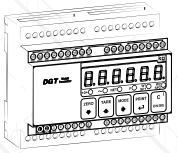


HIGH SPEED PROCESS & AUTOMATION WEIGHT TRANSMITTERS

These weight transmitters are designed for use in applications where a very high sampling rate is required in order to weigh with extreme precision in fractions of a second.
Ideal for belt weighing, dosing and micro-dosing, in-line filling and process control applications.

SAFETY & CONTROL WEIGHT TRANSMITTERS

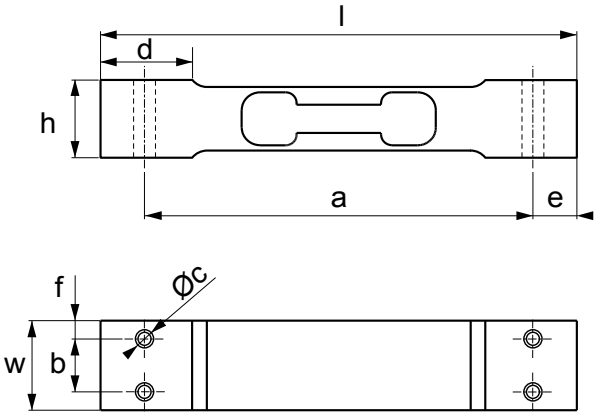
These transmitters are the most convenient and cost-effective solution to create weight control and monitoring applications in industrial processes.
They are used to weigh silos, hoppers, roller conveyors and low-speed belts.



Application key

Weighing belts · *Platforms* · *Hoppers* · *Roller-conveyors* · *Tanks and silos* · *Weighbridges* · *Suspended loads* · *Big bags* · *Weight peaks*

SPO | OFF-CENTER



OIML R60 | IP67 | C3 | Ex | ALUMINIUM

Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	Code
3	300 x 300	130	25,4	22	106	15	N°4 x M6	25	12	5	SPO3-1
5											SPO5-1
10											SPO10-1
15											SPO15-1
20											SPO20-1
30											SPO30-1
40	300 x 300	130	30	22	106	15	N°4 x M6	25	12	5	SPO40-1

ATEX Certification

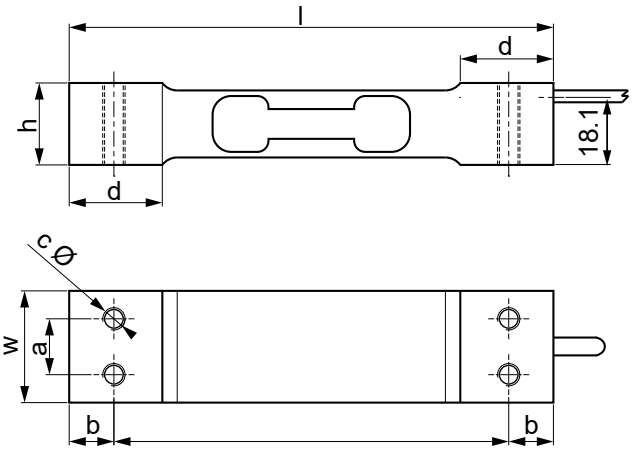
Option	Description	Code
Ex	Optional ATEX version (see www.diniargeo.com for additional details)	CCATEX-1

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	40 kg
Y value	Vmin = EMax / 8.000 - 15.000
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	0,0117 % F.S. / 10 K *(-10 °C / +20 °C)* 0,0175 % F.S. / 10 K *(+20 °C / +40 °C)*
Temperature effect on zero	From ± 0,0093 % F.S. / 10 K *to* ± 0,0175 % F.S. / 10 K
Hysteresis	± 0,0166 % F.S.
Non-linearity	± 0,0166 % F.S.
Creep at nominal load over 30 minutes	-
Input resistance	300...500 Ω
Output resistance	300...500 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 2.000 MΩ
Zero balance	0 ± 0,12 mV/V (at 100 V)
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +50 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	< 0,5 mm
Repeatability	-
Shielded cable	 Ø 3,2 mm l = 0,4 m

SPD | OFF-CENTER

IP66 IP67 ALUMINIUM



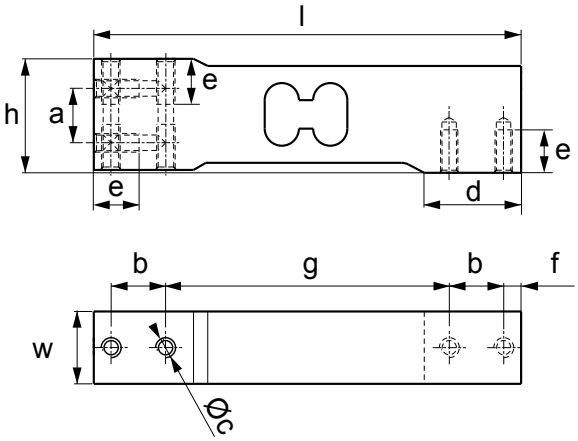
Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	Code	
3	300 x 300	130	24	22	15	12	N°4 x M6	25	**SPD3**	
5									**SPD5**	
10	350 x 350	130	30	22	15	12	N°4 x M6	25	**SPD10**	
15									**SPD15**	
20									**SPD20**	
35									**SPD35**	
75									**SPD75**	
Up to 200	-	-	-	-	-	-	-	-	-	

Technical features

Maximum number of verification intervals	-
Maximum capacity	75 kg
Y value	Vmin = Emax / 10.000
Nominal rated output	2 mV/V ± 10%
Temperature effect on full scale output	0,0114 % F.S. / °C
Temperature effect on zero	0,0114 % F.S. / °C
Hysteresis	± 0,0166 % F.S.
Non-linearity	± 0,0166 % F.S.
Creep at nominal load over 30 minutes	± 0,0116 F.S. / °C
Input resistance	406 ± 15 Ω
Output resistance	350 ± 3 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 2.000 MΩ
Zero balance	0 ± 0,1 mV/V
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +70 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	-
Repeatability	-
Shielded cable	 Ø 3,8 mm l = 3 m

SPG | OFF-CENTER



OIML R60 | IP67 | C3 | ATEX | ALUMINIUM

Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	g (mm)	Code
10	300 x 300	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	99,6	**SPG10-1**
15	450 x 450	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	99,6	**SPG15-1**
20												**SPG20-1**
30												**SPG30-1**
50	600 x 600	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	99,6	**SPG50-1**
100												**SPG100-1**
200												**SPG200-1**

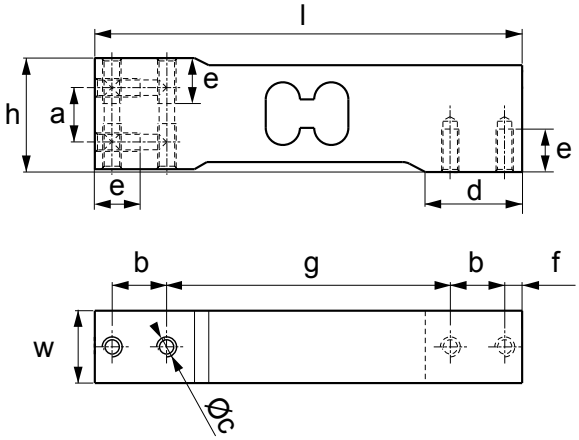
ATEX Certification

Option code	Description	Code
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	200 kg
Y value	Vmin = EMax / 10.000 - 15.000
Nominal rated output	2 mV/V ± 10%
Temperature effect on full scale output	0,011 % F.S. / 10 K *(-10 °C / +20 °C)* 0,017 % F.S. / 10 K *(+20 °C / +40 °C)*
Temperature effect on zero	From ± 0,0093 % F.S. / 10 K *to* ± 0,0140 % F.S. / 10 K
Hysteresis	± 0,0166 % F.S.
Non-linearity	± 0,0166 % F.S.
Creep at nominal load over 30 minutes	-
Input resistance	300...500 Ω
Output resistance	300...500 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 2.000 MΩ
Zero balance	0 ± 0,12 mV/V (at 100 V)
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +50 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	< 0,5 mm
Repeatability	-
Shielded cable	 Ø 4,7 mm l = 3 m

SPG C6 | OFF-CENTER



OIML R60 · IP67 · C6 · Ex · ALUMINIUM

Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	g (mm)	Code
7	300 x 300	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	99,6	SPG7C6-1
10												SPG10C6-1
18	450 x 450	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	99,6	SPG18C6-1
36												SPG36C6-1

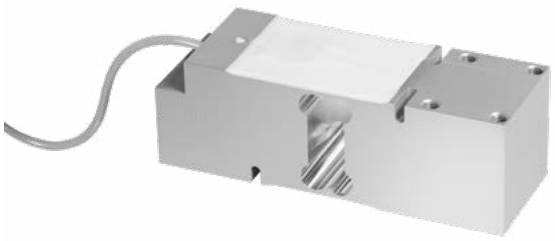
ATEX Certification

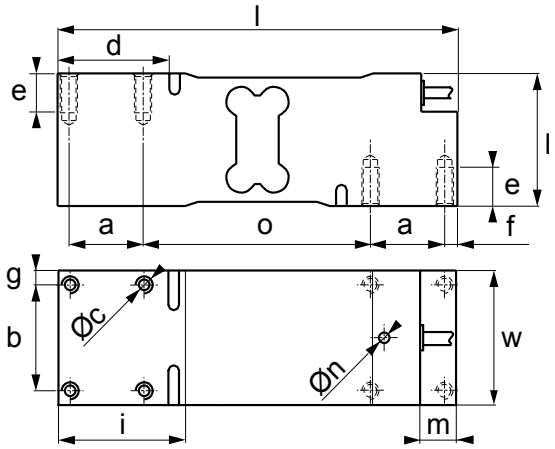
Option	Description	Code
Ex	Optional ATEX version (see www.diniargeo.com for additional details)	CCATEX-1

Technical features

Maximum number of verification intervals	nLC = 6.000
Maximum capacity	36 kg
Y value	Vmin = EMax / 14.000 - 25.000
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	0,0058 % F.S. / 10 K *(-10 °C / +20 °C)* 0,087 % F.S. / 10 K *(+20 °C / +40 °C)*
Temperature effect on zero	From ± 0,0056 % F.S. / 10 K *to* ± 0,01 % F.S. / 10 K
Hysteresis	± 0,0083 % F.S.
Non-linearity	± 0,0083 % F.S.
Creep at nominal load over 30 minutes	-
Input resistance	300...500 Ω
Output resistance	300...500 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 2.000 MΩ
Zero balance	0 ± 0,1 mV/V (at 100 V)
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +50 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	< 0,5 mm
Repeatability	-
Shielded cable	Ø 4,7 mm · l = 3 m

SPM | OFF-CENTER





OIML R60 | IP67 | C3 | ATEX | ALUMINIUM

Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	g (mm)	i (mm)	m (mm)	n (mm)	o (mm)	Code	
100	600 x 600	188	63,5	62,3	35	50	N°8 x M8	52	16	5,5	6,75	60	17	5	107	**SPM100**	
200																**SPM200**	
500																**SPM500**	

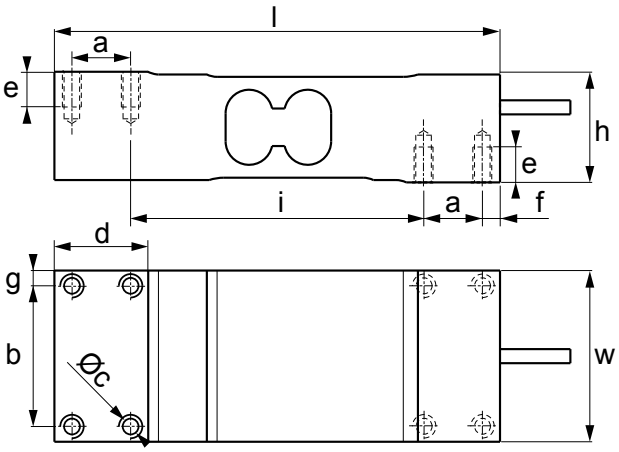
ATEX Certification

Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	500 kg
Y value	Vmin = EMax / 10.000 - 15.000
Nominal rated output	2 mV/V ± 10%
Temperature effect on full scale output	± 0,0117 % F.S. / 10 K *(-10 °C / +20 °C)* ± 0,0175 % F.S. / 10 K *(+20 °C / +40 °C)*
Temperature effect on zero	From ± 0,0093 % F.S. / 10 K *to* ± 0,0140 % F.S. / 10 K
Hysteresis	± 0,0166 % F.S.
Non-linearity	± 0,0166 % F.S.
Creep at nominal load over 30 minutes	-
Input resistance	300...500 Ω
Output resistance	300...500 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 2.000 MΩ
Zero balance	0 ± 0,1 mV/V (at 100 V)
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +50 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	< 0,5 mm
Repeatability	-
Shielded cable	Ø 5 mm l = 3 m

SPBC | OFF-CENTER



OIML R60 | IP65 | C3 | Ex | ALUMINIUM

Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	g (mm)	i (mm)	Code	
100	700 x 700	190	73	47	25	60	N°8 x M8	40	15	7,5	6,5	125	**SPBC100**	
200													**SPBC200**	
300													**SPBC300**	
500													**SPBC500**	
630													**SPBC630**	

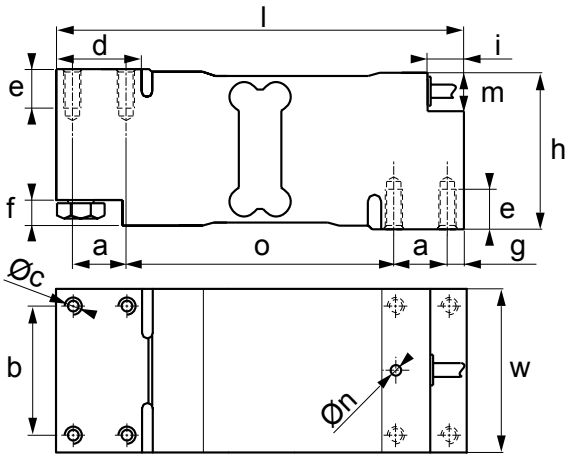
ATEX Certification

Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	630 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	0,0014 % / °C
Temperature effect on zero	0,0014 % / °C
Hysteresis	-
Non-linearity	-
Creep at nominal load over 30 minutes	0,025 % F.S.
Input resistance	410 ± 20 Ω
Output resistance	350 ± 5 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,017 % F.S.
Insulation resistance	> 1.000 MΩ
Zero balance	± 10 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	150 % F.S.
Breaking load	200 % F.S.
Nominal displacement	-
Repeatability	-
Shielded cable	 Ø 5 mm l = 3 m

SPN | OFF-CENTER



Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	g (mm)	i (mm)	m (mm)	n Ø (mm)	o (mm)	Code	
300	800 x 800	191	76	75	25	60	N°8 x M8	40	16	12	8	21	18	5	125	**SPN300**	
500																**SPN500**	
750																**SPN750**	

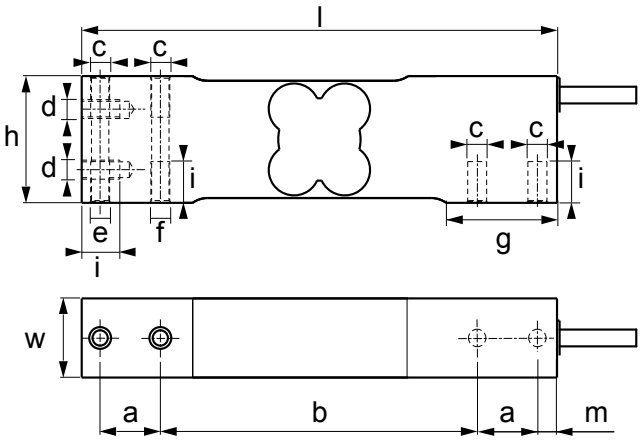
ATEX Certification

Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	750 kg
Y value	Vmin = EMax / 10.000 - 15.000
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	0,0117 % F.S. / 10 K *(-10 °C / +20 °C)* 0,0175 % F.S. / 10 K *(+20 °C / +40 °C)*
Temperature effect on zero	From ± 0,0093 % F.S. / 10 K *to* ± 0,0140 % F.S. / 10 K
Hysteresis	± 0,0166 % F.S.
Non-linearity	± 0,0166 % F.S.
Creep at nominal load over 30 minutes	-
Input resistance	300...500 Ω
Output resistance	300...500 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 2.000 MΩ
Zero balance	0 ± 0,1 mV/V (at 100 V)
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +50 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	< 0,5 mm
Repeatability	-
Shielded cable	Ø 5 mm l = 3 m

SPSW | OFF-CENTER



OIML R60 | IP67 | C3 | Ex | STAINLESS STEEL

Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d Ø (mm)	e Ø (mm)	f Ø (mm)	g (mm)	i (mm)	m (mm)	Code
7,5	500 x 400	150	25	40	19	100	N°4 x M6	N°2 x M6	M6	M6 x 0,5 (1 x)	35	13	6,2	**SPSW7.5** OIML R60
15														**SPSW15** OIML R60
30														**SPSW30** OIML R60
50														**SPSW50** OIML R60
100														**SPSW100** OIML R60
200	500 x 400	150	25	40	19	100	N°4 x M8	N°2 x M6	5,1	M6 x 0,5 (1 x)	35	13	6,2	**SPSW200** OIML R60

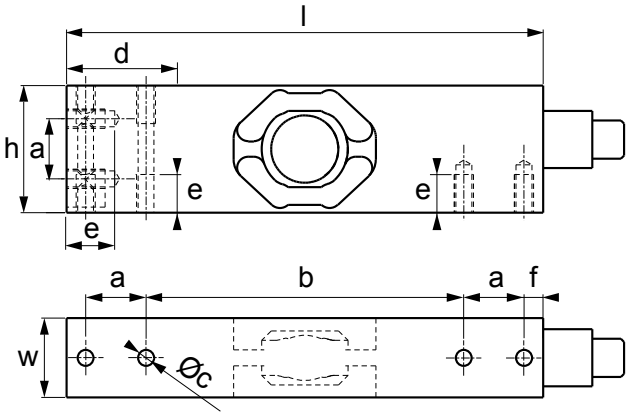
ATEX Certification

Option	Description	Code
Ex	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	200 kg
Y value	Vmin = EMax / 10.000 - 15.000
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	± 0,0117 % F.S. / 10 K *(-10 °C / +20 °C)*
	± 0,0175 % F.S. / 10 K *(+20 °C / +40 °C)*
Temperature effect on zero	From ± 0,0093 % F.S. / 10 K *to* ± 0,0140 % F.S. / 10 K
Hysteresis	± 0,0166 % F.S.
Non-linearity	± 0,0166 % F.S.
Creep at nominal load over 30 minutes	-
Input resistance	300...500 Ω
Output resistance	300...500 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 1.000 MΩ (at 100 V)
Zero balance	0 ± 0,1 mV/V
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +50 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	< 0,2 mm
Repeatability	-
Shielded cable	Ø 5 mm — l = 3 m

SPSY | OFF-CENTER



OIML R60 | IP69K | C3 | STAINLESS STEEL

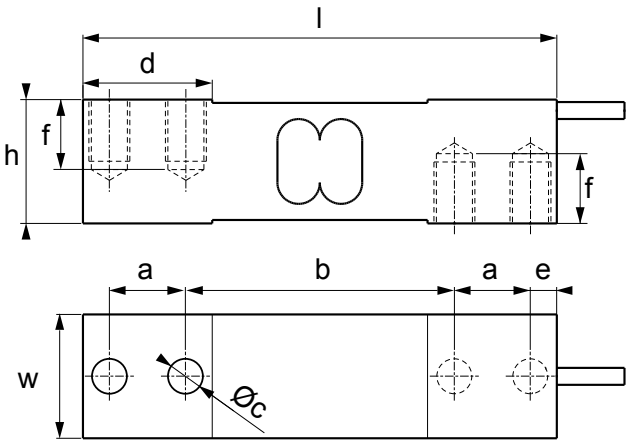
Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	Code
10	500 x 400	150	25	40	19	100	N°8 x M6	35	12	6	SPSY10
20											SPSY20
50											SPSY50
100											SPSY100

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	100 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	± 0,0117 % F.S. / 10 K *(-10 °C / +20 °C)*
	± 0,0175 % F.S. / 10 K *(+20 °C / +40 °C)*
Temperature effect on zero	± 0,014 % F.S. / 10 K
Hysteresis	± 0,0166 % F.S.
Non-linearity	± 0,0166 % F.S.
Creep at nominal load over 30 minutes	-
Input resistance	300...500 Ω
Output resistance	300...500 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 1.000 MΩ (at 100 V)
Zero balance	0 ± 0,1 mV/V
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10°C / +50 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	< 0,5 mm
Repeatability	-
Shielded cable	 Ø 5 mm l = 3 m

SPSX | OFF-CENTER



OIML R60 | IP67 | C3 | Ex | STAINLESS STEEL

Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	Code	
100	800 x 800	139,7	30,5	30,2	22,4	79,3	N°4 x M10	38	7,8	15	**SPSX100**	
300	800 x 800	139,7	30,5	30,2	22,4	79,3	N°4 x M10	38	7,8	15	**SPSX300**	
500	800 x 800	139,7	36,5	36,5	22,4	79,3	N°4 x M12	38	7,8	19	**SPSX500**	

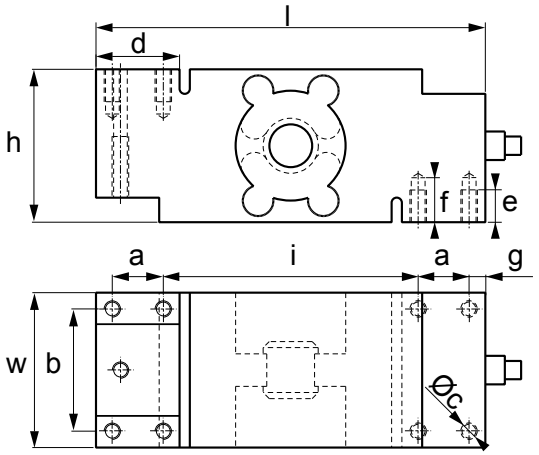
ATEX Certification

Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	500 kg
Y value	Vmin = EMax / 10.000 - 15.000
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	± 0,0117 % F.S. / 10 K *(-10 °C / +20 °C)* ± 0,0170 % F.S. / 10 K *(+20 °C / +40 °C)*
Temperature effect on zero	From ± 0,0093 % F.S. / 10 K *to* ± 0,0140 % F.S. / 10 K
Hysteresis	± 0,0166 % F.S.
Non-linearity	± 0,0166 % F.S.
Creep at nominal load over 30 minutes	-
Input resistance	390 ± 15 Ω
Output resistance	359 ± 10 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 2.000 MΩ (at 100 V)
Zero balance	0 ± 0,1 mV/V
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +50 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	< 0,5 mm
Repeatability	-
Shielded cable	 Ø 5 mm l = 3 m

SPSZ | OFF-CENTER



OIML R60 | IP68 | IP69K | C3 | STAINLESS STEEL

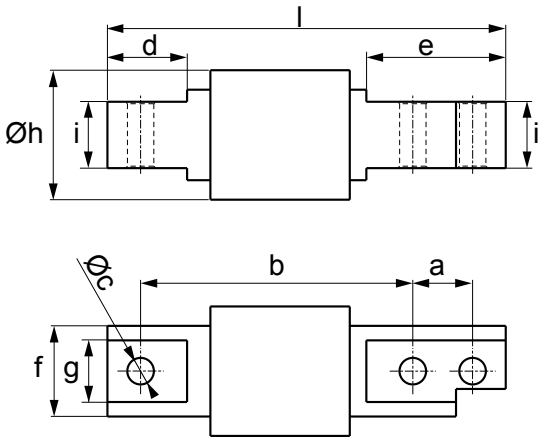
Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	g (mm)	i (mm)	Code	
500	800 x 800	191	76	75	25	60	N°9 x M12	41	16	22	8	125	**SPSZ500** OIML R60	
1.000													**SPSZ1000** OIML R60	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	1.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	± 0,0117 % F.S. / 10 K *(-10 °C / +20 °C)* ± 0,0170 % F.S. / 10 K *(+20 °C / +40 °C)*
Temperature effect on zero	From ± 0,0112 % F.S. / 10 K *to* ± 0,0186 % F.S. / 10 K
Hysteresis	± 0,0166 % F.S.
Non-linearity	± 0,0166 % F.S.
Creep at nominal load over 30 minutes	± 0,01 % F.S.
Input resistance	380 ± 15 Ω
Output resistance	300...500 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 2.000 MΩ (at 100 V)
Zero balance	-
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +50 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Nominal displacement	< 0,3 mm
Repeatability	-
Shielded cable	 Ø 5 mm l = 3 m

FXC | BENDING BEAM



OIML R60 | IP68 | C3 | Ex | STAINLESS STEEL

Version codes

Max (kg)	l (mm)	h Ø (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	g (mm)	i (mm)	Code	
10	120	39	18	82	N°3 x 8	24	42	27,3	18,5	20	**FXC10-1**	OIML R60
20											**FXC20-1**	OIML R60
50											**FXC50-1**	OIML R60
100											**FXC100-1**	OIML R60
200											**FXC200-1**	OIML R60
300											**FXC300-1**	OIML R60
500											**FXC500-1**	OIML R60

ATEX Certification

Option	Description	Code	
Ex	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC= 3.000
Maximum capacity	500 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 1 %
Temperature effect on full scale output	± 0,0014 % / °C
Temperature effect on zero	± 0,0014 % / °C
Hysteresis	-
Non-linearity	-
Creep at nominal load over 30 minutes	± 0,025 % F.S.
Input resistance	385 ± 20 Ω
Output resistance	350 ± 5 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,017 % F.S.
Insulation resistance	> 5.000 MΩ
Zero balance	± 2,5 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	150 % F.S.
Breaking load	200 % F.S.
Nominal displacement	< 0,4 mm
Repeatability	0,015 % F.S.
Shielded cable	 Ø 4 mm l = 3 m

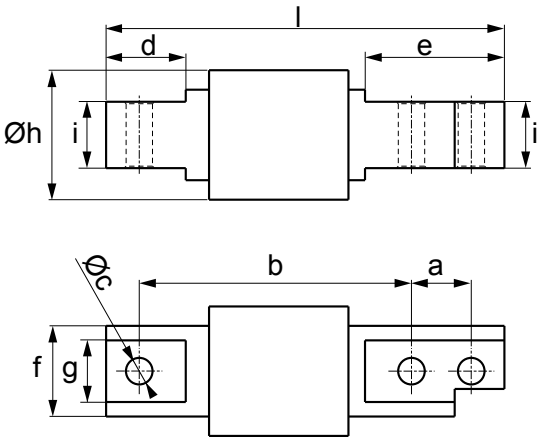
Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	Material	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	Up to 500 kg	-	-	**KFX** (load cell not included)	
	Stainless steel	Up to 500 kg	-	-	**KFXDN-1** (load cell not included)	

Joints	Material	Description	Threading	Code	
	Stainless steel / Rubber	Elastic joint for load cells up to 500 kg	M8 x 32 mm	**AVM8**	
	Stainless steel	Ball joint perfect to improve weighing performance	ø 8,3 x 9 mm	**SBJ8**	

Base plates	Material	Description	Hole size	Code	
	Stainless steel	Thickness for load cells up to 500 kg. Size (l x w x h): 42 x 30 x 10 mm.	ø 9 mm (for M8 screw)	**BPFX10**	

FXC C6 | BENDING BEAM



OIML R60 | IP68 | C6 | STAINLESS STEEL

Version codes

Max (kg)	l (mm)	h Ø (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	g (mm)	i (mm)	Code
20	120	39	18	82	N°3 x 8	24	42	27,3	18,5	20	**FXC20C6-1**
50											**FXC50C6-1**
100											**FXC100C6-1**
200											**FXC200C6-1**

ATEX Certification

Option	Description	Code
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**

Technical features

Maximum number of verification intervals	nLC = 6.000
Maximum capacity	200 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 1 %
Temperature effect on full scale output	± 0,0007 % / °C
Temperature effect on zero	± 0,0014 % / °C
Hysteresis	-
Non-linearity	-
Creep at nominal load over 30 minutes	± 0,012 % F.S.
Input resistance	385 ± 20 Ω
Output resistance	350 ± 5 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,008 % F.S.
Insulation resistance	> 5.000 MΩ
Zero balance	± 2,5 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	150 % F.S.
Breaking load	200 % F.S.
Nominal displacement	-
Repeatability	-
Shielded cable	Ø 4 mm l = 3 m

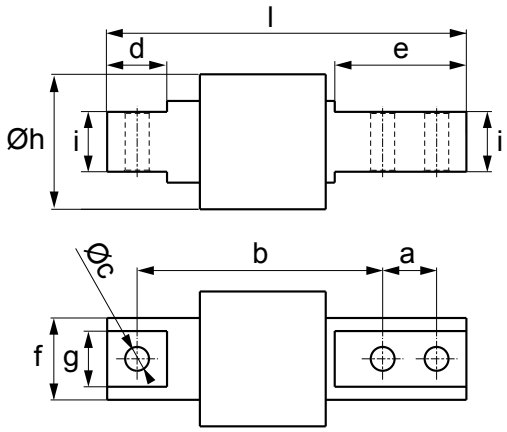
Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	Material	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	Up to 500 kg	-	-	**KFX** (load cell not included)	
	Stainless steel	Up to 500 kg	-	-	**KFXDN-1** (load cell not included)	

Joints	Material	Description	Threading	Code	
	Stainless steel / Rubber	Elastic joint for load cells up to 500 kg	M8 x 32 mm	**AVM8**	
	Stainless steel	Ball joint perfect to improve weighing performance	ø 8,3 x 9 mm	**SBJ8**	

Base plates	Material	Description	Hole size	Code	
	Stainless steel	Thickness for load cells up to 500 kg. Size (l x w x h): 42 x 30 x 10 mm.	ø 9 mm (for M8 screw)	**BPFX10**	

FXD | BENDING BEAM



OIML R60 | IP68 | C3 | Ex | STAINLESS STEEL

Version codes

Max (kg)	l (mm)	h Ø (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	g (mm)	i (mm)	Code	
10	120	45	18	82	N°3 x 8	20	44	27,3	18,6	20	**FXD10**	
20											**FXD20**	
50											**FXD50**	
100											**FXD100** OIML R60	
200											**FXD200** OIML R60	
300											**FXD300** OIML R60	
500											**FXD500** OIML R60	

ATEX Certification

Option	Description	Code	
Ex	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC= 3.000
Maximum capacity	500 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 0,1 %
Temperature effect on full scale output	± 0,02 % F.S. / 10 °C
Temperature effect on zero	± 0,02 % F.S. / 10 °C
Hysteresis	± 0,02 % F.S.
Non-linearity	± 0,02 % F.S.
Creep at nominal load over 30 minutes	± 0,012 % F.S.
Input resistance	385 ± 10 Ω
Output resistance	350 ± 3 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,012 % F.S.
Insulation resistance	> 5.000 MΩ
Zero balance	1 % F.S.
Compensated temperature range	-10 °C / +50 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	120 % F.S.
Breaking load	150 % F.S.
Nominal displacement	< 0,4 mm
Repeatability	± 0,01 % F.S.
Shielded cable	 Ø 5 mm l = 3 m

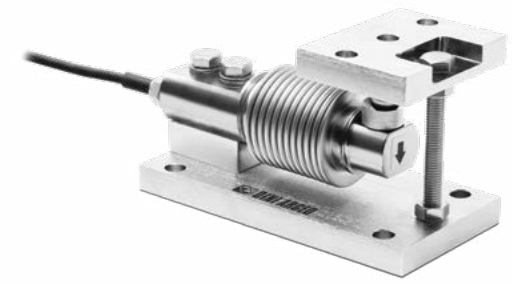
Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	Material	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	Up to 500 kg	-	-	**KFX** (load cell not included)	
	Stainless steel	Up to 500 kg	-	-	**KFXDN-1** (load cell not included)	

Joints	Material	Description	Threading	Code	
	Stainless steel / Rubber	Elastic joint for load cells up to 500 kg	M8 x 32 mm	**AVM8**	
	Stainless steel	Ball joint perfect to improve weighing performance	ø 8,3 x 9 mm	**SBJ8**	

Base plates	Material	Description	Hole size	Code	
	Stainless steel	Thickness for load cells up to 500 kg. Size (l x w x h): 42 x 30 x 10 mm.	ø 9 mm (for M8 screw)	**BPFX10**	

KFX | MOUNTING KIT



Mounting kits for FXC / FXD series bending beam load cells up to 500 kg with single anti-tipping system and side force compensation. Suitable for weighing belts, small and medium hoppers, tanks and mixers.
Fitted with ball joint for high-precision weighing.

STAINLESS STEEL

Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	1,5	Up to 500 kg (load cell capacity)	-	-	**KFX**	

ATEX certification

Option	Description	Code	
	ATEX declaration for the PLATFORM / LOAD CELL ASSEMBLY KIT (for load cell ATEX declaration see CCATEX code). Option to be offered only if the platform is ordered without the indicator, otherwise refer to the available certifications for the chosen weight indicator.	**DCATEXMECH**	

Technical features

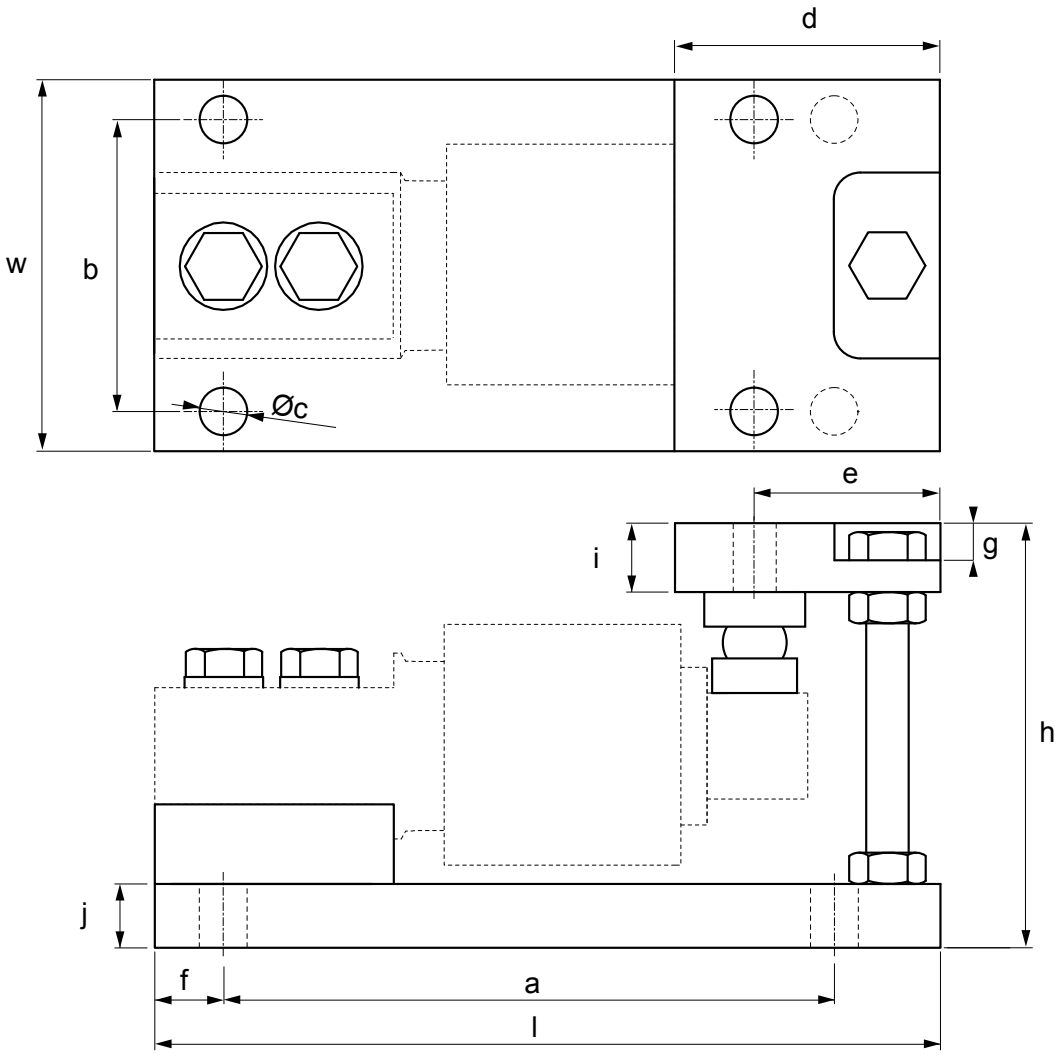
Construction in electropolished stainless steel AISI 304
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Grounding cable for protection against electrostatic discharges
ATEX version available for zones 1&21, 2&22

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing (mm)



Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** Ø (mm)	**d** (mm)	**e** (mm)	**f** (mm)	**g** (mm)	**i** (mm)	**j** (mm)	**Code**
500	148	70	80	115	55	N°6 x 9	50	35	13	7	13	12	**KFX**

KFXDN | MOUNTING KIT

Mounting kits for FXC / FXD series bending beam load cells up to 500 kg. Suitable for weighing belts, small and medium hoppers, tanks and mixers.

STAINLESS STEEL

Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	1,4	Up to 300 kg (load cell capacity)	-	-	**KFXDN-1** (Load cell not included)	

ATEX certification

Option	Description	Code	
	ATEX declaration for the PLATFORM / LOAD CELL ASSEMBLY KIT (for load cell ATEX declaration see CCATEX code). Option to be offered only if the platform is ordered without the indicator, otherwise refer to the available certifications for the chosen weight indicator.	**DCATEXMECH**	

Technical features

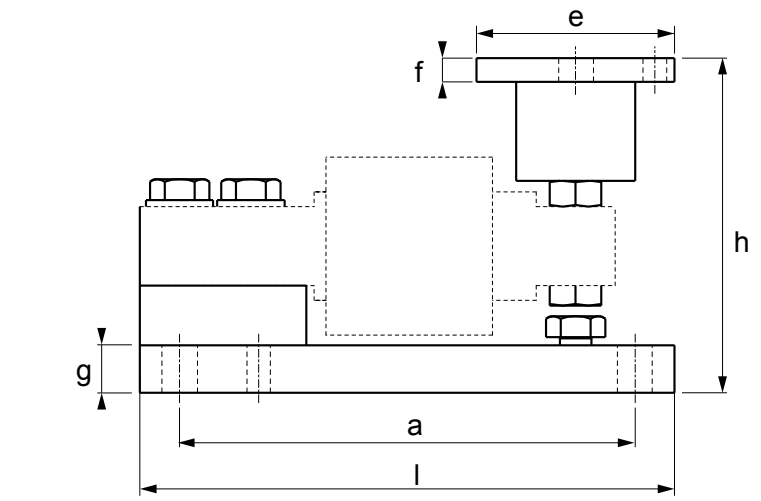
Construction in stainless steel AISI 304
Locking / bypass system for easy transport and maintenance
Upper plate with elastic joint for vibration absorption and expansion compensation
ATEX version available for zones 1&21, 2&22

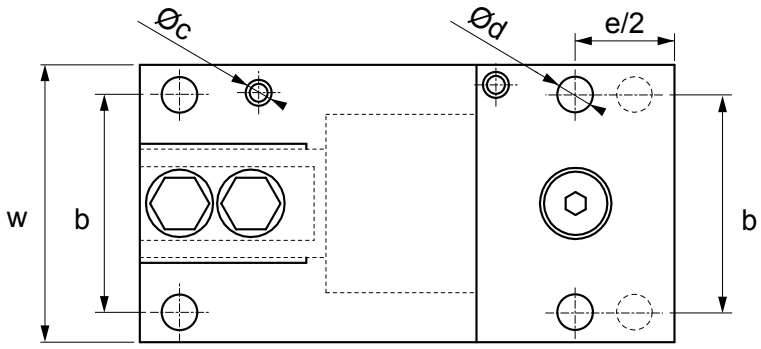
Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm^2 cable, 13 mm eyelets.	**GNDC**	

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

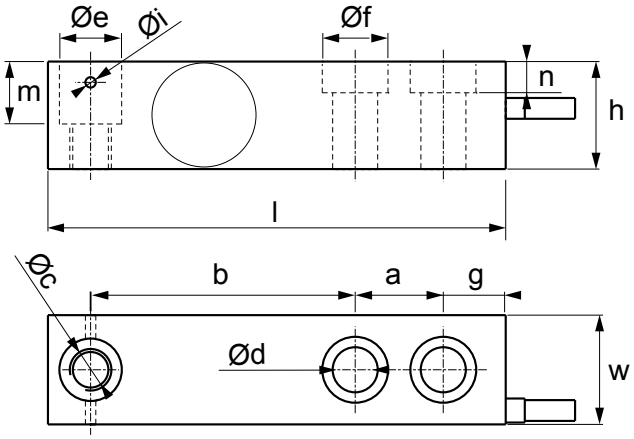
Technical drawing (mm)





Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** Ø (mm)	**d** Ø (mm)	**e** (mm)	**f** (mm)	**g** (mm)	**Code**
500	135	70	84,5	115	55	N°2 x 5	N°6 x 9	50	6	12	**KFXDN-1**

SBT | SHEAR BEAM



Version codes

Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d Ø (mm)	e Ø (mm)	f Ø (mm)	g (mm)	i Ø (mm)	m (mm)	n (mm)	Code
500	132	31,5	31	25,4	76,3	N°1 x M12	N°2 x 13	18	19	18	3	18	9	**SBT500** OIML R60
1.000														**SBT1000** OIML R60
2.000														**SBT2000** OIML R60

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	2.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 0,5 %
Temperature effect on full scale output	0,02 % F.S. / 10 °C
Temperature effect on zero	0,02 % F.S. / 10 °C
Hysteresis	± 0,02 % F.S.
Non-linearity	± 0,02 % F.S.
Creep at nominal load over 30 minutes	0,02 % F.S.
Input resistance	380 ± 20 Ω
Output resistance	350 ± 5 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,017 % F.S.
Insulation resistance	> 5.000 MΩ
Zero balance	± 1 % F.S.
Compensated temperature range	-10 °C / +50 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	120 % F.S.
Breaking load	300 % F.S.
Nominal displacement	-
Repeatability	± 0.01 % F.S.
Shielded cable	 Ø 5 mm l = 3,5 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	Material	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Nickel-plated steel	2.500 kg	10	-	**KSBC2** (load cell not included)	
	Galvanised steel	2.500 kg	-	-	**KSBN2** (load cell not included)	
	Stainless steel	2.500 kg	10	-	**KSBX2** (load cell not included)	
	Stainless steel	2.000 kg	-	-	**KSB2H**	

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm^2 cable, 13 mm eyelets.	**GNDC**	

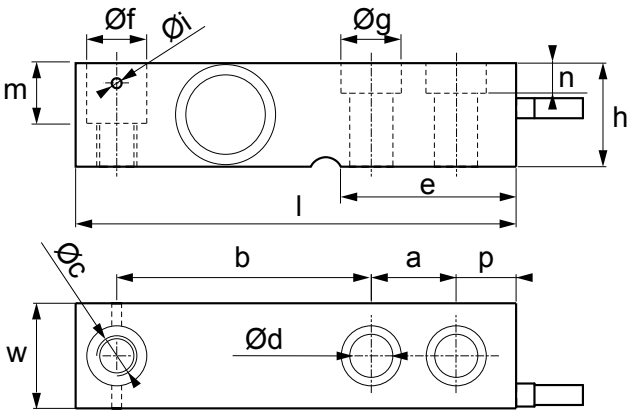
This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Foot	Material	Load cell compatibility	Threading	Code	
	Stainless steel	For load cells up to 2.500 kg	M12 x 43 mm	**SBFI-1**	
	Stainless steel	For load cells up to 2.500 kg	M12 x 45 mm	**KSB2FI-1**	
	Nickel-plated steel	For load cells up to 2.500 kg	M12 x 45 mm	**SBFA**	
Bushes	**Material**	**Foot compatibility**	**Threading**	**Code**	
	Stainless steel	M12 bush	M12 x 25 mm	**BLKM12I**	

Joints	Material	Description	Threading	Code	
	Stainless steel / Rubber	Elastic joint for load cells up to 2.500 kg	M12 x 32 mm	**AVM12**	
	Stainless steel	Ball joint perfect to improve weighing performance	M12 x 32 mm	**SBJ12**	

Base plates	Material	Description	Hole size	Code	
	Stainless steel	Thickness for load cells up to 2.500 kg. Size (l x w x h): 55 x 30 x 5 mm.	N° 2 x ø 13 mm	**BPSB5**	
	Stainless steel	Thickness for load cells up to 2.500 kg. Size (l x w x h): 55 x 30 x 3 mm.	N° 2 x ø 13 mm	**BPSB3**	

SBX | SHEAR BEAM



OIML R60 · IP68 · IP69K · C3 · ATEX · STAINLESS STEEL

Version codes

Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d Ø (mm)	e (mm)	f Ø (mm)	g Ø (mm)	i Ø (mm)	m (mm)	n (mm)	p (mm)	Code
500	132	31,5	31	25,4	76,3	N°1 x M12	N°2 x 13	52,5	18	18	3	18	9	18	**SBX500-1KL**
1.000															**SBX1000-1KL**
2.000															**SBX2000-1KL**
2.500															**SBX2500-1KL**
3.000	171,5	38	38	38,1	95,3	N°1 x M20	N°2 x 20,5	70	30,2	28	-	19	10	19,1	**SBX3000-1KL**
4.500															**SBX4500-1KL**
10.000	222,5	50,8	50,8	50,8	123,8	N°1 x M24	N°2 x 27	95	27	-	-	26	-	25,4	**SBX10000-1KL**

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	10.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V +/- 0,5 %
Temperature effect on full scale output	0,002 % / °C
Temperature effect on zero	0,002 % / °C
Hysteresis	0,02 % F.S.
Non-linearity	0,02 % F.S.
Creep at nominal load over 30 minutes	0,02 % F.S.
Input resistance	1.100 ± 20 Ω
Output resistance	1.000 ± 20 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,017 % F.S.
Insulation resistance	> 5.000 MΩ
Zero balance	-
Compensated temperature range	-10 °C / +50 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	120 % F.S.
Breaking load	300 % F.S.
Nominal displacement	-
Repeatability	-
Shielded cable	 Ø 5 mm l = 5 m

Certifications

Option	Description	Code
ATEX	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**
IP69K	IP69K version for one load cell	**IP69KLC**

Main options and accessories *(for a complete list visit www.diniargeo.com)*

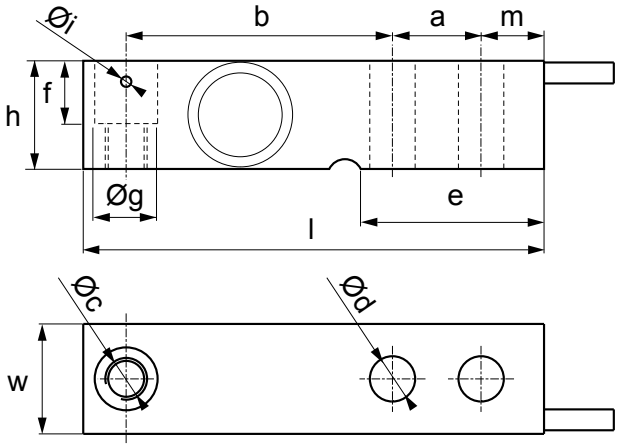
Mounting Kits	Material	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Nickel-plated steel	2.500 kg	10	-	**KSBC2** (load cell not included)	
	Galvanised steel	2.500 kg	-	-	**KSBN2** (load cell not included)	
	Stainless steel	2.500 kg	10	-	**KSBX2** (load cell not included)	
	Stainless steel	2.000 kg	-	-	**KSB2H**	
	Stainless steel	3.000 / 5.000 kg	-	-	**KSB5H**	

Feet	Material	Load cell compatibility	Threading	Code	
	Stainless steel	For load cells up to 2.500 kg	M12 x 43 mm	**SBFI-1**	
	Stainless steel	For load cells from 3.000 to 5.000 kg	M20 x 46,5 mm	**SBFI3K-1**	
	Stainless steel	For load cells up to 2.500 kg	M12 x 45 mm	**KSB2FI-1**	
	Stainless steel	For load cells from 3.000 to 5.000 kg	M20 x 45 mm	**KSB5FI-1**	
	Nickel-plated steel	For load cells up to 2.500 kg	M12 x 45 mm	**SBFA**	
Bushes	**Material**	**Foot compatibility**	**Threading**	**Code**	
	Stainless steel	M12 bush	M12 x 25 mm	**BLKM12I**	
	Stainless steel	M20 bush	M12 x 26 mm	**BLKM20I**	

Joints	Material	Description	Threading	Code	
	Stainless steel / Rubber	Elastic joint for load cells up to 2.500 kg	M12 x 32 mm	**AVM12**	
	Stainless steel	Ball joint perfect to improve weighing performance	M12 x 32 mm	**SBJ12**	

Base plates	Material	Description	Hole size	Code	
	Stainless steel	Thickness for load cells up to 2.500 kg. Size (l x w x h): 55 x 30 x 5 mm.	N° 2 x ø 13 mm	**BPSB5**	
	Stainless steel	Thickness for load cells up to 2.500 kg. Size (l x w x h): 55 x 30 x 3 mm.	N° 2 x ø 13 mm	**BPSB3**	
	Stainless steel	Thickness for load cells from 3.000 to 4.500 kg. Size (l x w x h): 70 x 40 x 5 mm.	N° 2 x ø 20 mm	**BPSBX5**	

SBK C6 | SHEAR BEAM



OIML R60 | IP68 | C6 | Ex | STAINLESS STEEL

Version codes

Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d Ø (mm)	e (mm)	f (mm)	g (mm)	i (mm)	m (mm)	Code	
500	132	31,5	31	25,4	76,2	N°1 x M12	N°2 x 13	52,5	18	18	3	18	**SBK500C6**	OIML R60
1.000													**SBK1000C6**	OIML R60
2.000													**SBK2000C6**	OIML R60

ATEX certification

Option	Description	Code	
Ex	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC = 6.000
Maximum capacity	2.000 kg
Y value	Vmin = EMax / 15.000
Nominal rated output	2 mV/V ± 0,1 %
Temperature effect on full scale output	0,0007 % / °C
Temperature effect on zero	0,0009 % / °C
Hysteresis	-
Non-linearity	-
Creep at nominal load over 30 minutes	0,012 % F.S.
Input resistance	385 ± 20 Ω
Output resistance	350 ± 5 Ω
Nominal range of excitation voltage	5 - 15 Vdc *(Atex version 1 - 12 Vdc)*
Combined error	0,008 % F.S.
Insulation resistance	> 5.000 MΩ
Zero balance	± 10 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	150 % F.S.
Breaking load	200 % F.S.
Nominal displacement	-
Repeatability	-
Shielded cable	 Ø 5 mm l = 5 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	Material	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Nickel-plated steel	2.500 kg	10	-	**KSBC2**	
	Galvanised steel	2.500 kg	-	-	**KSBN2**	
	Stainless steel	2.500 kg	10	-	**KSBX2**	
	Stainless steel	2.000 kg	-	-	**KSB2H**	

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm^2 cable, 13 mm eyelets.	**GNDC**	

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Foot	Material	Load cell compatibility	Threading	Code	
	Stainless steel	For load cells up to 2.500 kg	M12 x 43 mm	**SBFI-1**	
	Stainless steel	For load cells up to 2.500 kg	M12 x 45 mm	**KSB2FI-1**	
	Nickel-plated steel	For load cells up to 2.500 kg	M12 x 45 mm	**SBFA**	
Bushes	**Material**	**Foot compatibility**	**Threading**	**Code**	
	Stainless steel	M12 bush	M12 x 25 mm	**BLKM12I**	

Joints	Material	Description	Threading	Code	
	Stainless steel / Rubber	Elastic joint for load cells up to 2.500 kg	M12 x 32 mm	**AVM12**	
	Stainless steel	Ball joint perfect to improve weighing performance	M12 x 32 mm	**SBJ12**	

Base plates	Material	Description	Hole size	Code	
	Stainless steel	Thickness for load cells up to 2.500 kg. Size (l x w x h): 55 x 30 x 5 mm.	N° 2 x ø 13 mm	**BPSB5**	
	Stainless steel	Thickness for load cells up to 2.500 kg. Size (l x w x h): 55 x 30 x 3 mm.	N° 2 x ø 13 mm	**BPSB3**	

KSBC | MOUNTING KIT

Mounting kits for SBT / SBK / SBX series Shear Beam load cells up to 2.500 kg. Suitable for weighing hoppers, tanks and platforms.

NICKEL PLATED STEEL

Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Nickel-plated steel	4,7	Up to 2.500 kg (Load cell capacity)	10	-	**KSBC2** (Load cell not included)	

Technical features

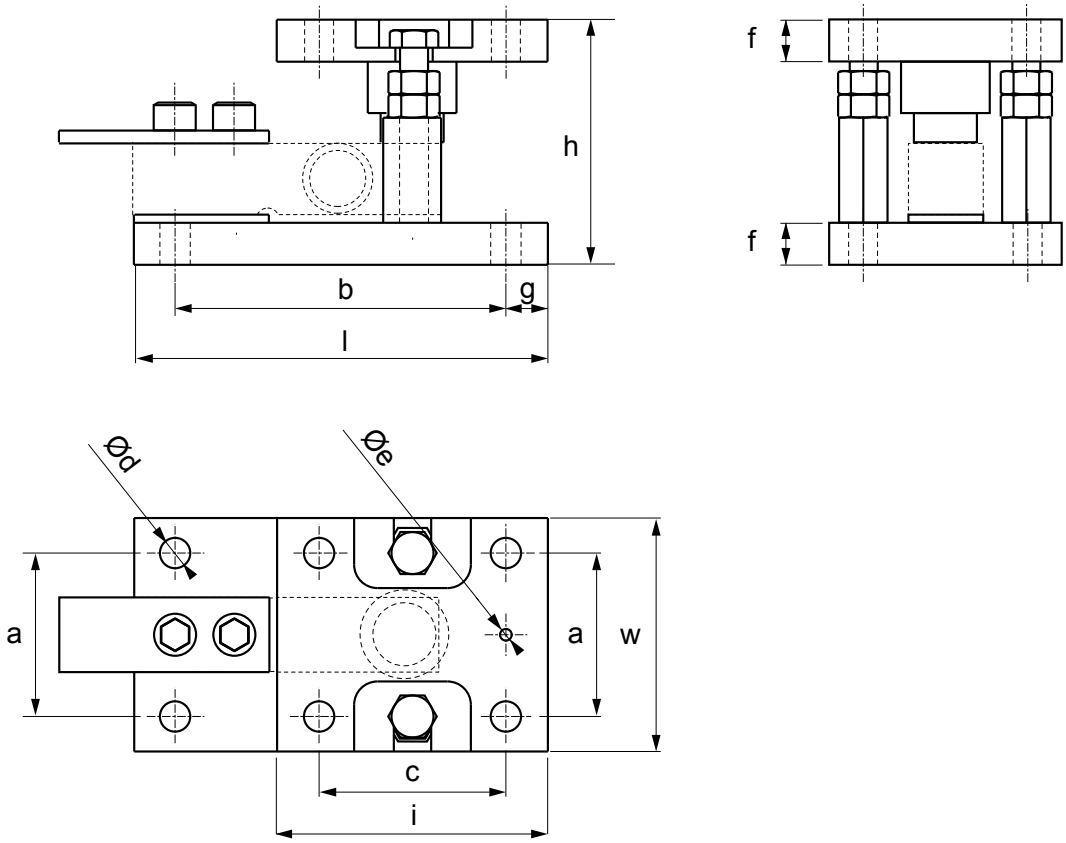
Construction in nickel-plated steel
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Higher plate with ball joint, for optimal weighing precision
Overload protection nuts

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm² cable, 13 mm eyelets.	**GNDC**	

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing (mm)



Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** (mm)	**d** Ø (mm)	**e** Ø (mm)	**f** (mm)	**g** (mm)	**i** (mm)	**Code**
2.500	175	100	105	70	140	80	N°8 x 13	N°2 x 5	18	17,5	116	**KSBC2**

KSBN | MOUNTING KIT

GALVANISED STEEL

Mounting kits for SBX / SBK series Shear Beam load cells up to 2.500 kg. Suitable for weighing hoppers, tanks and platforms.

Version codes

Mounting kits	Material	Weigh (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Galvanised steel	5,2	Up to 2.500 kg (Load cell capacity)	-	-	**KSBN2** (Load cell not included)	

ATEX certification

Option	Description	Code	
	ATEX declaration for the PLATFORM / LOAD CELL ASSEMBLY KIT (for load cell ATEX declaration see CCATEX code). Option to be offered only if the platform is ordered without the indicator, otherwise refer to the available certifications for the chosen weight indicator.	**DCATEXMECH**	

Technical features

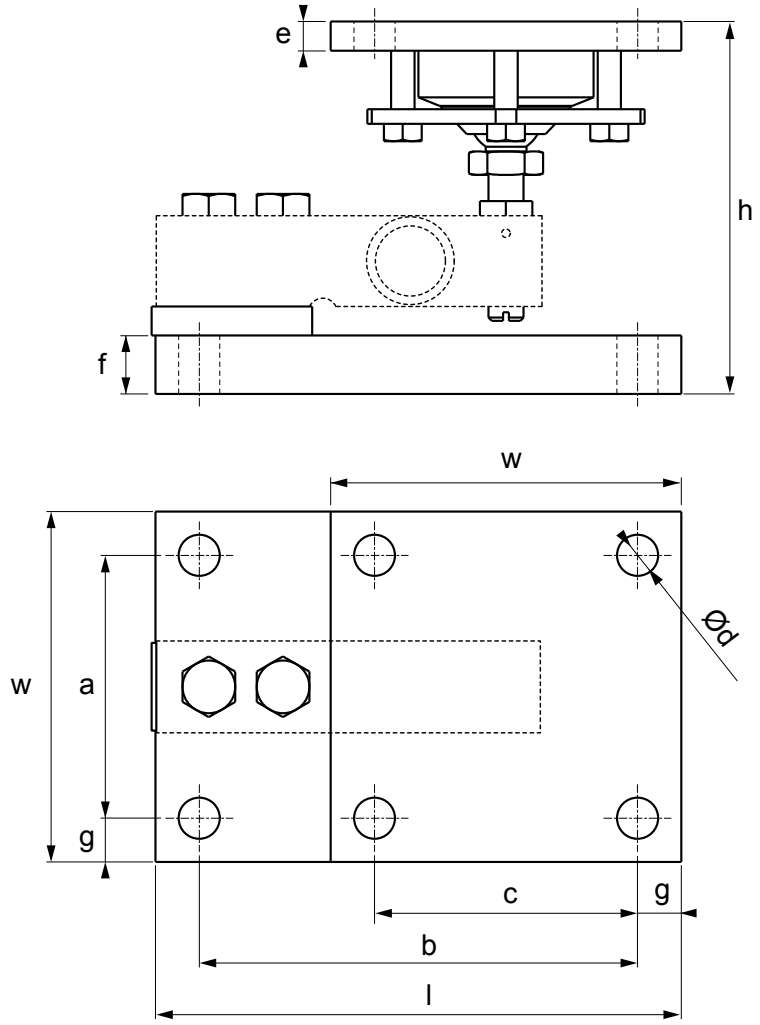
Construction in galvanised steel
Height adjustment for correct leveling
Mechanical compensation of thermal swellings and transversal forces
Upper plate with ball joint for excellent measuring accuracy
ATEX version available for zones 1&21, 2&22

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm² cable, 13 mm eyelets.	**GNDC**	

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing (mm)



Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** (mm)	**d** Ø (mm)	**e** (mm)	**f** (mm)	**g** (mm)	**Code**
2.500	180	120	127,5	90	150	90	N°8 x 14	10	20	15	**KSBN2**

KSBX | MOUNTING KIT

Mounting kits for SBT / SBX / SBK series Shear Beam load cells up to 2.500 kg. Suitable for weighing hoppers, tanks and platforms.

PATENTED · STAINLESS STEEL

Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	4,7	Up to 2.500 kg (Load cell capacity)	10	-	**KSBX2** (Load cell not included)	

ATEX certification

Option	Description	Code	
	ATEX declaration for the PLATFORM / LOAD CELL ASSEMBLY KIT (for load cell ATEX declaration see CCATEX code). Option to be offered only if the platform is ordered without the indicator, otherwise refer to the available certifications for the chosen weight indicator.	**DCATEXMECH**	

Technical features

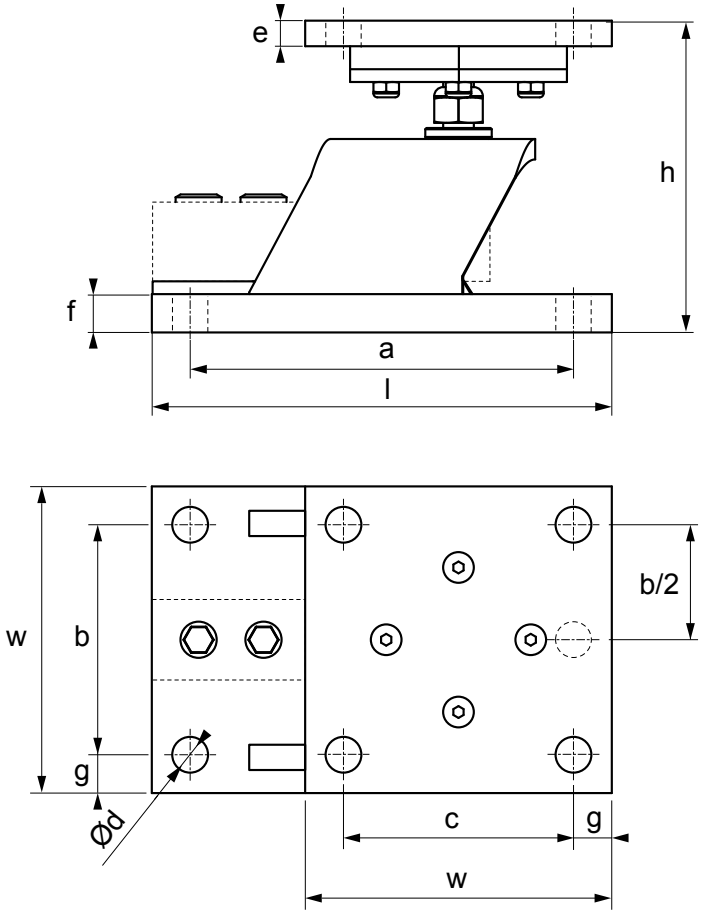
Construction in stainless steel AISI 304, with electropolished finishing, for better resistance to external agents
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nut
Higher plate with configurable system "lock, "side" or "free"
Height regulation for a correct levelling of the structure
Oscillating joint
Simplified base fixing with 3 holes, or complete with 4 holes
ATEX version available, for zones 1&21, 2&22

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm² cable, 13 mm eyelets.	**GNDC**	

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

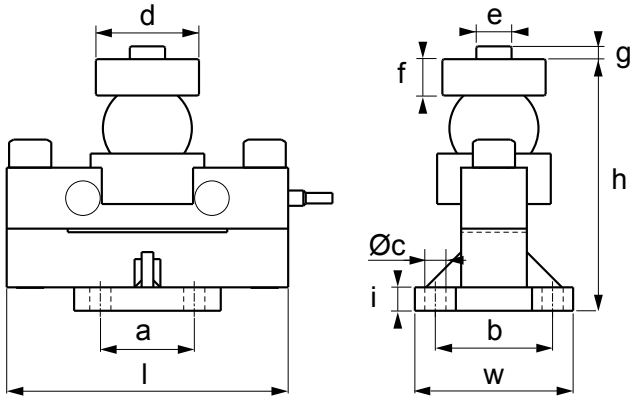
Technical drawing (mm)



Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** (mm)	**d** Ø (mm)	**e** (mm)	**f** (mm)	**g** (mm)	**Code**
2.500	180	120	122	150	90	90	N°9 x 14	10	15	15	**KSBX2**

RSBT | DOUBLE SHEAR BEAM

OIML R60 · IP68 · C3 · Ex · NICKEL PLATED STEEL



Version codes

Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d Ø (mm)	e Ø (mm)	f (mm)	g (mm)	i (mm)	Code	
25.000	240	135	225,5	80	100	N°4 x 18	86	28	29	11	20	**RSBT25C3**	
30.000												**RSBT30C3**	
40.000	240	135	225,5	80	100	N°4 x 18	86	28	29	11	20	**RSBT40C3**	

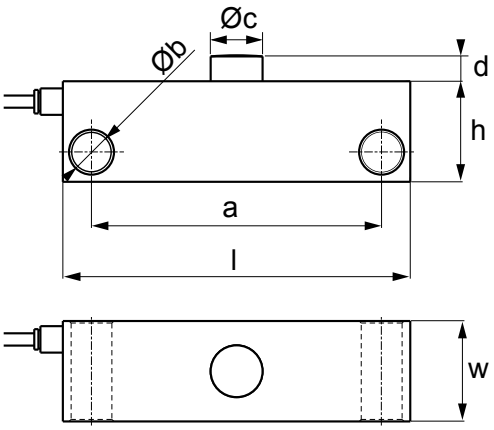
ATEX certification

Option	Description	Code	
Ex	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	40.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 0,2 %
Temperature effect on full scale output	0,0014 % / °C
Temperature effect on the zero	± 0,0017 % / °C
Creep at nominal load over 30 minutes	0,02 % F.S.
Input resistance	750 Ω
Output resistance	700 ± 7 Ω
Nominal range of excitation voltage	5 - 18 Vdc
Insulation resistance	> 5.000 MΩ
Zero balance	± 1,5 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-35 °C / +65 °C
Safe overload	> 150 % F.S.
Breaking load	300 % F.S.
Shielded cable	 Ø 6 mm l = 15 m

DSBI | DOUBLE SHEAR BEAM



OIML R60 | IP68 | C4 | Ex | STAINLESS STEEL 17-4 PH

Version codes

Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b Ø (mm)	c Ø (mm)	d (mm)	Code	
10.000	170	49,2	49,2	142	N°2 x 20	25,4	12,7	**DSBI10**	
20.000								**DSBI20**	
30.000								**DSBI30**	

ATEX certification

Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC = 4.000
Maximum capacity	30.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 0,1 %
Temperature effect on full scale output	0,00097 % / °C
Temperature effect on the zero	0,00116 % / °C
Hysteresis	± 0,015 % F.S.
Non-linearity	± 0,015 % F.S.
Creep at nominal load over 4 hours	< 0,02 % F.S.
Input resistance	700 ± 10 Ω
Output resistance	700 ± 10 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Insulation resistance	> 5.000 MΩ
Zero balance	± 2 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-30 °C / +85 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Shielded cable	 Ø 5 mm l = 15 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	Material	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	Up to 30.000 kg	-	-	**KDSBN** (Load cell not included)	

KDSBN | MOUNTING KIT

Mounting kits for DSBI series Double Shear Beam load cells up to 30.000 kg. Suitable for weighing large capacity hoppers, tanks and silos.

STAINLESS STEEL

Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	7,3	Up to 30.000 kg (Load cell capacity)	-	-	**KDSBN** (Load cell not included)	

ATEX certification

Option	Description	Code	
	ATEX declaration for the PLATFORM / LOAD CELL ASSEMBLY KIT (for load cell ATEX declaration see CCATEX code). Option to be offered only if the platform is ordered without the indicator, otherwise refer to the available certifications for the chosen weight indicator.	**DCATEXMECH**	

Technical features

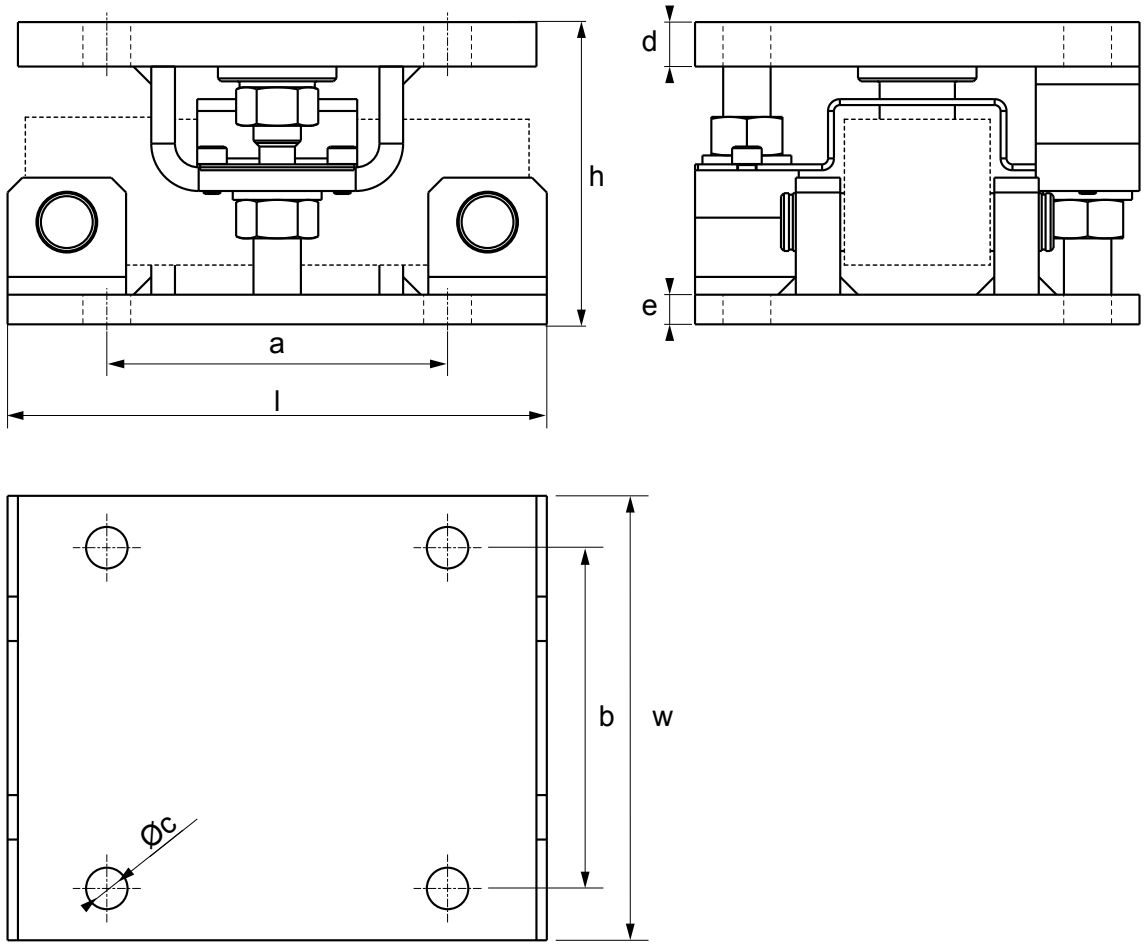
Construction in stainless steel AISI 304
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Centering plate/electrostatic bypass
Great resistance to lateral forces
Locking nuts to maintain the raised position simplify the installation and the removal of the load cell
ATEX version available for zones 1&21, 2&22

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm² cable, 13 mm eyelets.	**GNDC**	

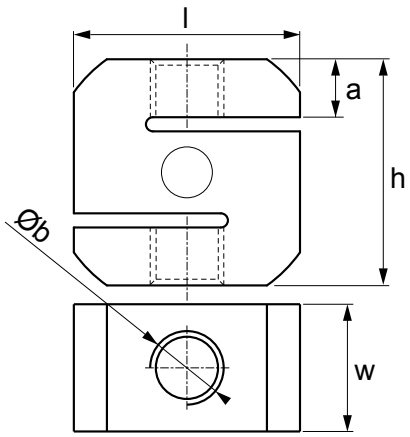
This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing (mm)



Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** Ø (mm)	**d** (mm)	**e** (mm)	**Code**
30.000	182	150	102	115	115	N°8 x 14	15	10	**KDSBN**

STU 1K | TENSION



OIML R60 · IP68 · C3 · STAINLESS STEEL

Version codes

Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** Ø (mm)	**Code**	
2.000	80	45	80	20,5	N°2 x M16	**STU2000-1KD**	
5.000	80	45	80	20,5	N°2 x M24	**STU5000-1KD**	
8.000						**STU8000-1KD**	
10.000	80	52	80	20,5	N°2 x M24	**STU10000-1KD**	

Technical features

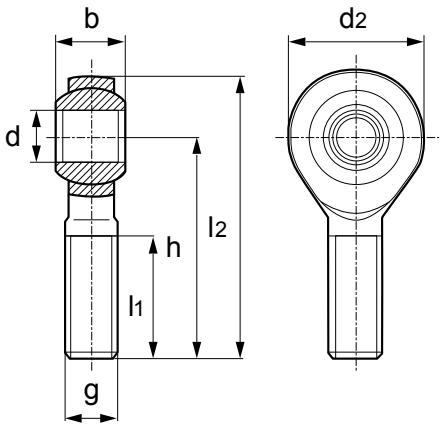
Maximum number of verification intervals	nLC = 3.000
Maximum capacity	10.000 kg
Y value	-
Nominal rated output	2 mV/V ± 0,1 %
Temperature effect on full scale output	0,02 % F.S. / 10°C
Temperature effect on zero	0,02 % F.S. / 10°C
Hysteresis	± 0,03 % F.S.
Non-linearity	± 0,03 % F.S.
Creep at nominal load over 30 minutes	± 0,03 % F.S.
Input resistance	1000 ± 20 Ω
Output resistance	1000 ± 20 Ω (Compression) / ± 5 Ω (Tension)
Nominal range of excitation voltage	5 - 15 Vdc
Insulation resistance	> 5.000 MΩ
Zero balance	± 1 % F.S.
Compensated temperature range	-10 °C / +50 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	120 % F.S.
Breaking load	300 % F.S.
Repeatability	± 0,02 % F.S.
Shielded cable	Ø 5 mm l = 3 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

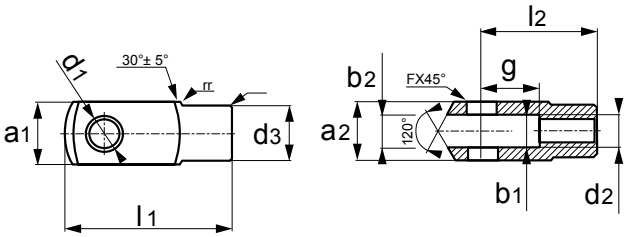
Option	Description	Threading	Code	
	M16 articulated rod-end ball joint. Maximum lifting capacity 2.000 kg.	M16	**RBJM16**	
	M16 clevis fitted with pin, to be combined with RBJM16.	M16	**CLVM16**	

Code	d (mm)	g (mm)	l_1 (mm) min.	d_2 (mm)	h (mm)	l_2 (mm)	b (mm)
RBJM16	17	M16	36	46	69	92	14

Code	d_1 (mm)	g (mm)	a_1 (mm)	a_2 (mm)	b_1 (mm)	d_2 (mm)	d_3 (mm)	l_1 (mm)	l_2 (mm)	l_2 (mm) max. var.
CLVM16	16	32	32	32	12	M16	26	83	64	0,4

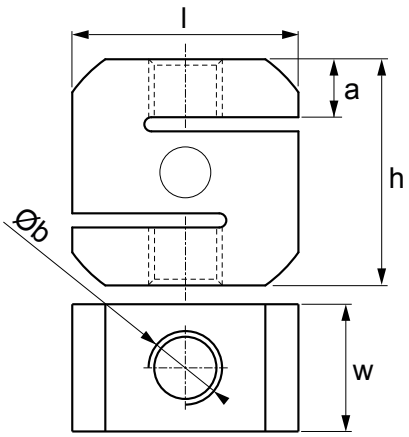


RBJ



CLV

STFC | TENSION



Version codes

Max (kg)	l (mm)	w (mm)	h (mm)	a Ø (mm)	b Ø (mm)	Code	
2.000	80	42	80	20	N°2 x M16	**STFC2000**	
5.000	80	42	80	20	N°2 x M24	**STFC5000**	
10.000	80	52	80	20	N°2 x M24	**STFC10000**	

ATEX certification

Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

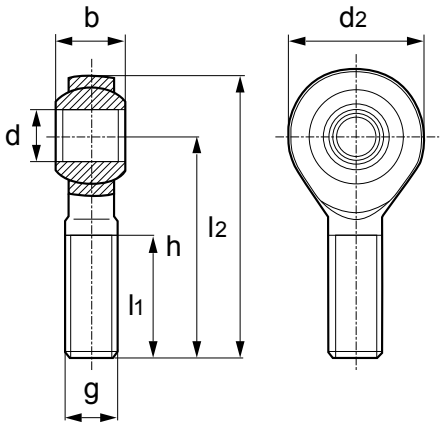
Maximum number of verification intervals	nLC = 3.000
Maximum capacity	10.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 0,1 %
Temperature effect on full scale output	0,02 % / °C
Temperature effect on zero	0,02 % / °C
Hysteresis	± 0,02 % F.S.
Non-linearity	± 0,02 % F.S.
Creep at nominal load over 4 hours	0,03 % F.S.
Input resistance	1.000 ± 110 Ω
Output resistance	1.000 ± 10 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Insulation resistance	> 5.000 MΩ
Zero balance	± 2 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-30 °C / +85 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Repeatability	0,01 % F.S.
Shielded cable	Ø 5 mm — l = 5 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

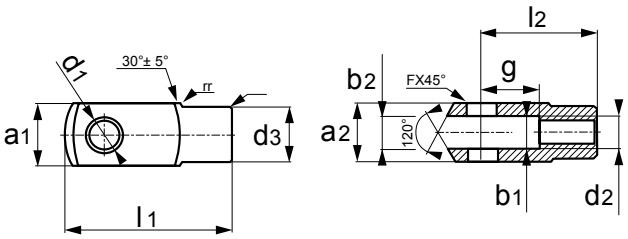
Option	Description	Threading	Code	
	M16 articulated rod-end ball joint. Maximum lifting capacity 2.000 kg.	M16	**RBJM16**	
	M16 clevis fitted with pin, to be combined with RBJM16.	M16	**CLVM16**	
	M24 articulated rod-end ball joint. Maximum lifting capacity 5.000 kg.	M24	**RBJM24**	
	M24 clevis fitted with pin, to be combined with RBJM24.	M24	**CLVM24-1**	

Code	**d** (mm)	**g** (mm)	**l1** (mm) min.	**d2** (mm)	**h** (mm)	**l2** (mm)	**b** (mm)
RBJM16	17	M16	36	46	69	92	14
RBJM24	25	M24	53	64	94	126	20

Code	**d1** (mm)	**g** (mm)	**a1** (mm)	**a2** (mm)	**b1** (mm)	**d2** (mm)	**d3** (mm)	**l1** (mm)	**l2** (mm)	**l2** (mm) max. var.
CLVM16	16	32	32	32	12	M16	26	83	64	0,4
CLVM24	25	50	50	50	25	M24	42	132	100	0,4



RBJ

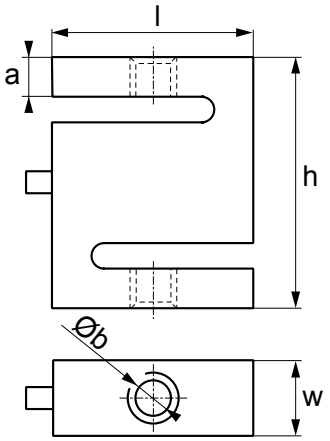


CLV

SL | TENSION

IP67

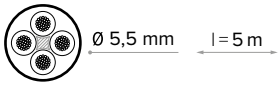
NICKEL PLATED STEEL



Version codes

Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** Ø (mm)	**Code**	
15	51	13	64	10,5	N°2 x M8	**SL15**	
30						**SL30**	
50						**SL50**	
100	51	19	76	13,5	N°2 x M12	**SL100**	
300						**SL300**	
500						**SL500**	
1.000	54	25,4	76	13,5	N°2 x M12	**SL1000**	

Technical features

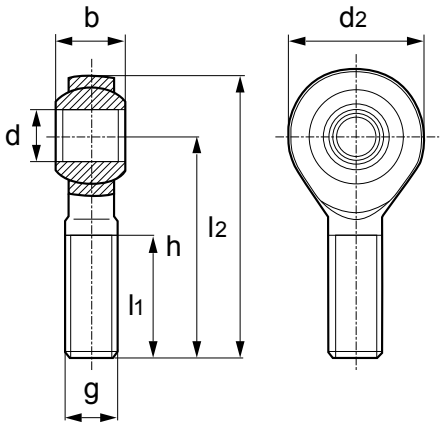
Maximum number of verification intervals	-
Maximum capacity	1.000 kg
Y value	-
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	0,02 % / °C
Temperature effect on zero	0,02 % / °C
Hysteresis	0,02 % F.S.
Non-linearity	0,02 % F.S.
Creep at nominal load over 4 hours	0,03 % F.S.
Input resistance	381 ± 10 Ω
Output resistance	350 ± 3 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Insulation resistance	> 5.000 MΩ
Zero balance	± 2 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-30 °C / +85 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Repeatability	0,01 % F.S.
Shielded cable	 Ø 5,5 mm l = 5 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

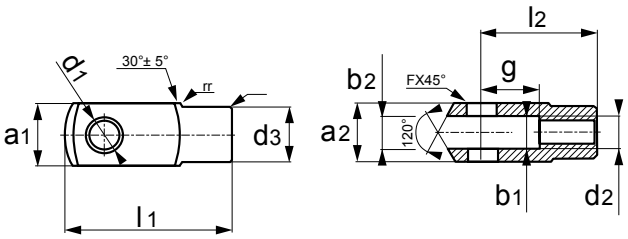
Option	Description	Threading	Code	
	M8 articulated rod-end ball joint. Maximum lifting capacity 600 kg. For load cells up to 50 kg.	M8	**RBJM8**	
	M8 clevis fitted with pin, to be combined with RBJM8. For load cells up to 50 kg.	M8	**CLVM8**	
	M12 articulated rod-end ball joint. Maximum lifting capacity 1.000 kg. For load cells from 100 to 1.000 kg.	M12	**RBJM12**	
	M12 clevis fitted with pin, to be combined with RBJM12. For load cells from 100 to 1.000 kg.	M12	**CLVM12**	

Code	**d** (mm)	**g** (mm)	**l1** (mm) min.	**d2** (mm)	**h** (mm)	**l2** (mm)	**b** (mm)
RBJM8	8	M8	22	24	42	54	8
RBJM12	12	M12	28	34	54	71	10

Code	**d1** (mm)	**g** (mm)	**a1** (mm)	**a2** (mm)	**b1** (mm)	**d2** (mm)	**d3** (mm)	**l1** (mm)	**l2** (mm)	**l2** (mm) max. var.
CLVM8	8	16	16	16	8	M8	14	42	32	0,4
CLVM12	12	24	24	24	12	M12	20	62	48	0,4

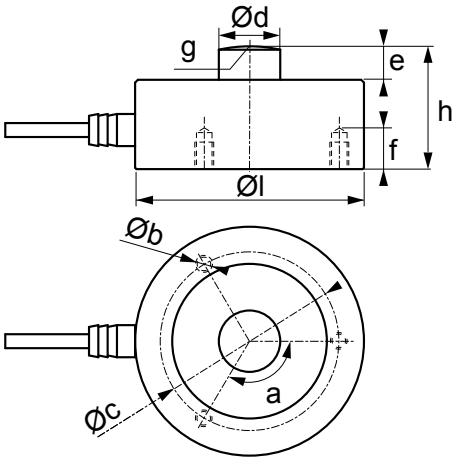


RBJ



CLV

CPX | COMPRESSION



OIML R60 | IP68 | IP69K | C3 | Ex | STAINLESS STEEL

Version codes

Max (kg)	l Ø (mm)	h (mm)	a (°)	b Ø (mm)	c Ø (mm)	d Ø (mm)	e (mm)	f (mm)	g (mm)	Code
250	82	44	120°	3 x M8	68	22	12	21	R120	CPX250
500										CPX500
1.000										CPX1000
2.500										CPX2500 OIML R60
5.000										CPX5000 OIML R60
7.500										CPX7500 OIML R60
10.000										CPX10000 OIML R60
12.500										CPX12500 OIML R60
15.000	100	48,5	120°	3 x M10	80	28	13,5	24	R120	CPX15000
30.000	126	54	120°	3 x M12	90	35	14	30	R120	CPX30000
50.000	165	80	120°	3 x M16	130	60	20	28	R300	CPX50000
100.000										CPX100000
Up to 1.000.000	-	-	-	-	-	-	-	-	-	Upon request

Technical features

Maximum number of verification intervals	nLC = 3.000	
Maximum capacity	100.000 kg	
Y value	Vmin = EMax / 10.000	
Nominal rated output	2 mV/V ± 0,5 %	
Temperature effect on full scale output	0,02 % / 10 °C	
Temperature effect on zero	0,02 % / 10 °C	
Hysteresis	0,05 % F.S.	
Non-linearity	0,05 % F.S.	
Creep at nominal load over 30 minutes	0,02 % F.S.	
Input resistance	750 ± 10 Ω	
Output resistance	700 ± 5 Ω	
Nominal range of excitation voltage	5 - 15 Vdc	
Insulation resistance	> 5.000 MΩ	
Zero balance	± 1 % F.S.	
Compensated temperature range	-10 °C / +50 °C	
Operating temperature range	-20 °C / +60 °C	
Safe overload	120 % F.S.	
Breaking load	300 % F.S.	
Repeatability	0,02 % F.S.	
Shielded cable	CPX 250 ... 5.000 kg: Ø 5 mm l = 5 m	CPX 7.500 ... 100.000 kg: Ø 5 mm l = 10 m

ATEX certification

Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	
	IP69K version for one load cell	**IP69KLC**	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	Material	UNI CE 1090	Max load cell capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Nickel-plated steel	-	Up to 12.500 kg	45	25	**KCPN10A** (Load cell not included)	
	Stainless steel	-	Up to 12.500 kg	45	25	**KCPN10** (Load cell not included)	
	Stainless steel	•	Up to 12.500 kg	45	25	**KCPN10PRO** (Load cell not included)	
	Stainless steel	-	15.000 kg	45	25	**KCPN15** (Load cell not included)	
	Stainless steel	-	30.000 kg	45	30	**KCPN30** (Load cell not included)	
	Zinc-plated steel	-	CPX - 30.000 CPA - From 20.000 to 50.000	130	100	**KCP50-NS** (Load cell not included)	
	Zinc-plated steel	•	CPX - 30.000 CPA - From 20.000 to 50.000	130	100	**KCP50-1090-NS** (Load cell not included)	
	Zinc-plated steel	•	50.000 / 100.000 kg	400	200	**KCP100H** (Load cell not included)	
			Up to 1.000.000 kg	-	-	**Upon request**	

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm^2 cable, 13 mm eyelets.	**GNDC**	

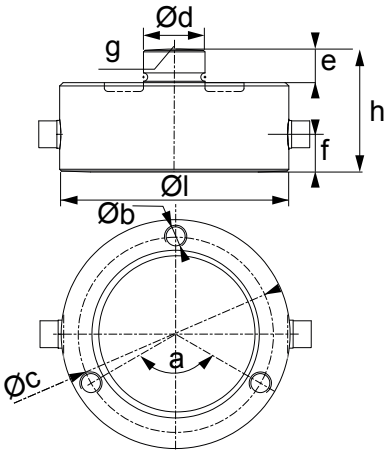
This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

- As standard

CPX-D | COMPRESSION

Coming 2025

IP68 C3 STAINLESS STEEL



Version codes

Max (kg)	**l** Ø (mm)	**h** (mm)	**a** (°)	**b** Ø (mm)	**c** Ø (mm)	**d** Ø (mm)	**e** (mm)	**f** (mm)	**g** (mm)	**Code**	
1.000	82	44	120°	3 x M8	68	22	12	21	R120	**CPX1000DC**	
2.500										**CPX2500DC**	
5.000										**CPX5000DC**	
7.500										**CPX7500DC**	
10.000										**CPX10000DC**	
15.000	100	48,5	120°	3 x M10	80	28	13,5	24	R120	**CPX15000 DC**	
30.000	126	54	120°	3 x M12	90	35	14	30	R120	**CPX30000 DC**	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	30.000 kg
Rated digital output	200.000d
Current consumption	<20mA
Temperature effect on full scale output	± 0,02 % / 10 °C
Temperature effect on zero	± 0,02 % / 10 °C
Internal resolution	24 bit
Conversion rate	640conv./sec.
Creep at nominal load over 30 minutes	± 0,02 % F.S.
Nominal range of excitation voltage	5 - 12 Vdc
Compensated temperature range	-10 °C / +50 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	120 % F.S.
Breaking load	200 % F.S.
Shielded cable	 Ø 5 mm l = 5/10 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

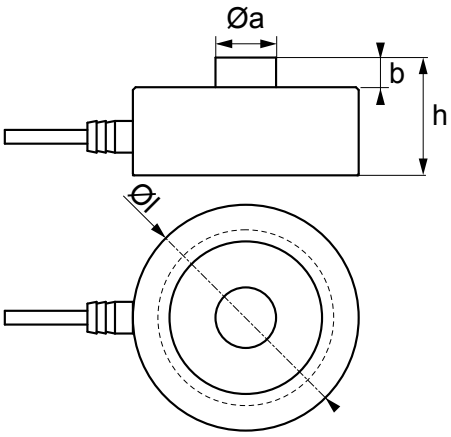
Mounting kits	Material	UNI CE 1090	Max load cell capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Nickel-plated steel	-	Up to 12.500 kg	45	25	**KCPN10A** (Load cell not included)	
	Stainless steel	-	Up to 12.500 kg	45	25	**KCPN10** (Load cell not included)	
	Stainless steel	•	Up to 12.500 kg	45	25	**KCPN10PRO** (Load cell not included)	
	Stainless steel	-	15.000 kg	45	25	**KCPN15** (Load cell not included)	
	Stainless steel	-	30.000 kg	45	30	**KCPN30** (Load cell not included)	

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

• As standard

CPA | COMPRESSION



OIML R60 | IP68 | C3 | Ex | STAINLESS STEEL

Version codes

Max (kg)	**l** Ø (mm)	**h** (mm)	**a** Ø (mm)	**b** (mm)	**Code**	
150	82	44	22	12	**CPA150**	
300					**CPA300**	
500					**CPA500**	
1.000					**CPA1000**	
2.000					**CPA2000**	OIML R60
3.000					**CPA3000**	OIML R60
5.000					**CPA5000**	OIML R60
7.000					**CPA7000**	OIML R60
10.000					**CPA10000**	OIML R60
20.000	128	54	35	14	**CPA20000**	
30.000					**CPA30000**	
50.000					**CPA50000**	
Up to 1.000.000	-	-	-	-	**Upon request**	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	50.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 0,1 %
Temperature effect on full scale output	0,0013 % / °C
Temperature effect on zero	0,001 % / °C
Hysteresis	0,015 % F.S.
Non-linearity	0,025 % F.S.
Creep at nominal load over 4 hours	0,03 % F.S.
Input resistance	1100 ± 50 Ω
Output resistance	1000 ± 10 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 5.000 MΩ
Zero balance	± 2 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-30 °C / +85 °C (* Upon request up to 200 °C)
Storage temperature range	-30 °C / +90 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Repeatability	0,01 % F.S.
Shielded cable	CPA 150 ... 10.000 kg: Ø 5 mm l = 5 m CPA 20.000 ... 50.000 kg: Ø 5 mm l = 15 m

ATEX certification

Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

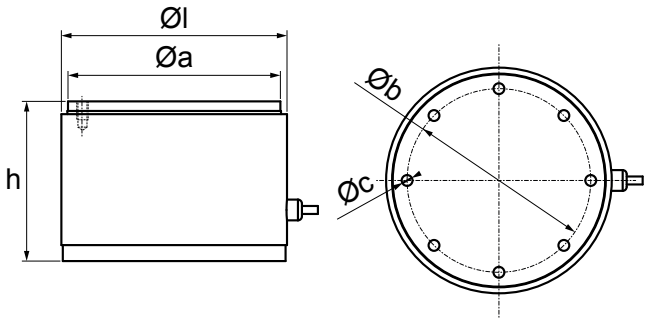
Option	Description	Code	
	Option for high temperatures with compensation up to 200°C and specific cable (for single load cell)	**CPAHT**	
	Option for high temperatures with compensation up to 85°C and standard cable (for single load cell)	**CPAHTL**	

Mounting kits	Material	UNI EN 1090	Max load cell capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Nickel-plated steel	-	Up to 10.000 kg	45	25	**KCPN10A** (Load cell not included)	
	Stainless steel	-	Up to 10.000 kg	45	25	**KCPN10** (Load cell not included)	
	Stainless steel	•	Up to 10.000 kg	45	25	**KCPN10PRO** (Load cell not included)	
	Stainless steel	-	15.000 kg	45	25	**KCPN15** (Load cell not included)	
	Zinc-plated steel	-	CPX - 30.000 CPA - From 20.000 to 50.000	130	100	**KCP50-NS** (Load cell not included)	
	Zinc-plated steel	•	CPX - 30.000 CPA - From 20.000 to 50.000	130	100	**KCP50-1090-NS** (Load cell not included)	
			Up to 1.000.000 kg	-	-	**Upon request**	

• As standard

CPH | COMPRESSION

IP67 STAINLESS STEEL



Version codes

Max (kg)	**l** Ø (mm)	**h** (mm)	**a** Ø (mm)	**b** Ø (mm)	**c** Ø (mm)	**Code**	
50.000	141,3	100	133	115	N°16 x M8	**CPH50**	
100.000						**CPH100**	
250.000						**CPH250**	
500.000	168	100	160,5	115	N°24 x M12	**CPH500**	
800.000	219	200	210	150	N°24 x M20	**CPH800**	
1.000.000						**CPH1000**	

Technical features

Maximum number of verification intervals	-	
Maximum capacity	1.000.000 kg	
Y value	-	
Nominal rated output	2 mV/V ± 1 %	
Temperature effect on full scale output	0,0013 % / °C	
Temperature effect on zero	0,0014% / °C	
Hysteresis	0,15 % F.S.	
Non-linearity	0,15 % F.S.	
Creep at nominal load over 4 hours	0,05% F.S.	
Input resistance	1050 ± 20 Ω (from 50.000 to 500.000 kg), 1400 ± 20 Ω (from 800.000 to 1.000.000 kg)	
Output resistance	1050 ± 20 Ω (from 50.000 to 500.000 kg), 1400 ± 20 Ω (from 800.000 to 1.000.000 kg)	
Nominal range of excitation voltage	5 - 15 Vdc	
Combined error	-	
Insulation resistance	> 5.000 MΩ	
Zero balance	± 2 % F.S.	
Compensated temperature range	-10 °C / +40 °C	
Operating temperature range	-30 °C / +85 °C	
Storage temperature range	-30 °C / +90 °C	
Safe overload	150 % F.S.	
Breaking load	300 % F.S.	
Repeatability	0,1 % F.S.	
Shielded cable	CPH 50.000 ... 500.000 kg:	CPH 800.000 ... 1.000.000 kg:
	 Ø 5 mm l = 15 m	 Ø 5 mm l = 25 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	Material	Max load cell capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	Up to 250.000 kg	-	-	**KCPXH250** (Load cell not included)	
	Stainless steel	Up to 500.000 kg	-	-	**KCPXH500** (Load cell not included)	
	Stainless steel	Up to 800.000 kg	-	-	**KCPXH800** (Load cell not included)	
	Stainless steel	Up to 1.000.000 kg	-	-	**KCPXH1000** (Load cell not included)	

● As standard o Optional

KCPNA | MOUNTING KIT

NICKEL PLATED STEEL

Mounting kits for CPX / CPA series Compression load cells up to 12.500 / 10.000 kg. Suitable for weighing silos, tanks and hoppers.

Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Nickel-plated steel	5,4	CPX - Up to 12.500 CPA - Up to 10.000	45	25	**KCPN10A** (Load cell not included)	

Technical features

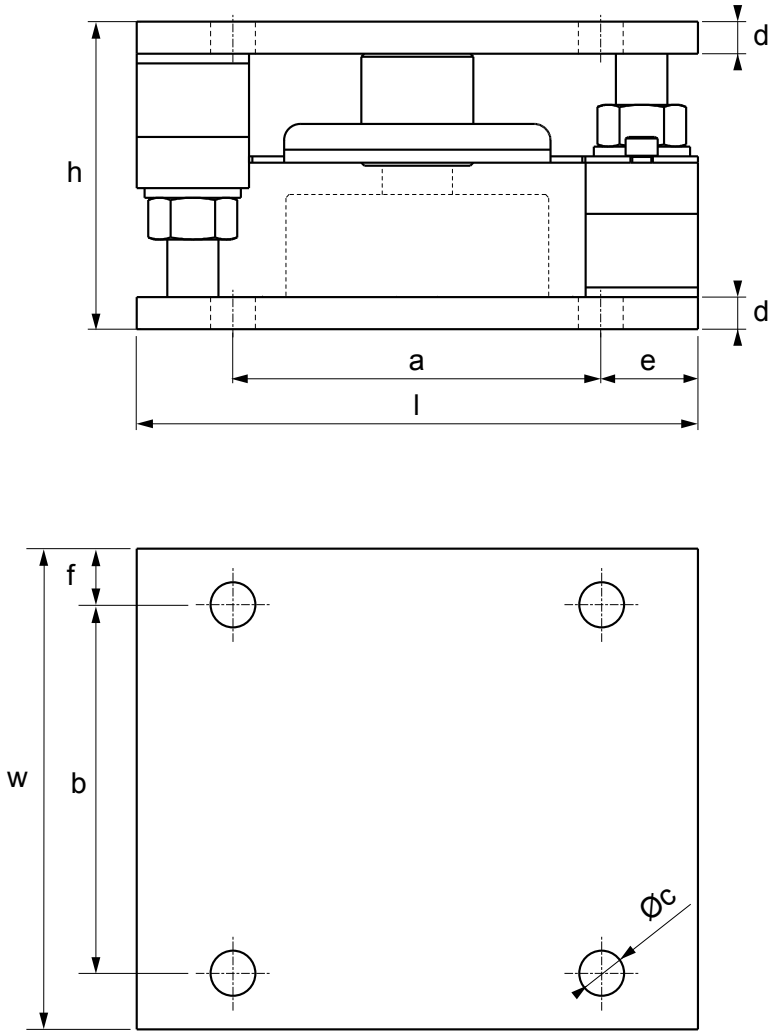
Construction in nickel-plated steel
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Self-centering connection segment between lower and upper plate
Protection against electrostatic charges
Great resistance to lateral forces
Locking nuts to maintain the raised position simplify the installation and the removal of the load cell
Dummy load cells for liquid weighing

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm^2 cable, 13 mm eyelets.	**GNDC**	

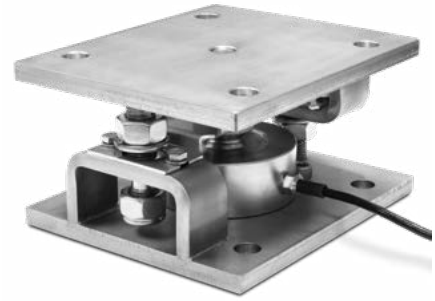
This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing (mm)



Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** Ø (mm)	**d** (mm)	**e** (mm)	**f** (mm)	**Code**
12.500	175	150	96	115	115	N°8 x 14	10	30	17,5	**KCPN10A**

KCPN | MOUNTING KIT



Mounting kits for CPX / CPA series Compression load cells up to 100.000 kg. Suitable for weighing large capacity silos, tanks, hoppers.

STAINLESS STEEL

UNI EN 1090

Version codes

Mounting kits	Material	UNI EN 1090	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	-	5,4	CPX - Up to 12.500 CPA - Up to 10.000	45	25	**KCPN10** (Load cell not included)	
	Stainless steel	•	5,4	CPX - Up to 12.500 CPA - Up to 10.000	45	25	**KCPN10PRO** (Load cell not included)	
	Stainless steel	-	5,4	CPX - 15.000	45	25	**KCPN15** (Load cell not included)	
	Stainless steel	-	9,4	CPX - 30.000	45	30	**KCPN30** (Load cell not included)	
	Stainless steel	-	41,6	CPX - From 50.000 to 100.000	90	40	**KCPN100** (Load cell not included)	

ATEX certification

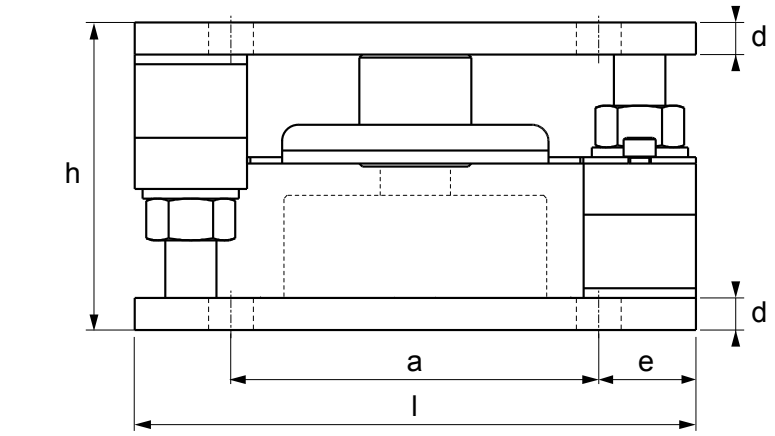
Option	Description	Code	
	ATEX declaration for the PLATFORM / LOAD CELL ASSEMBLY KIT (for load cell ATEX declaration see CCATEX code). Option to be offered only if the platform is ordered without the indicator, otherwise refer to the available certifications for the chosen weight indicator.	**DCATEXMECH**	

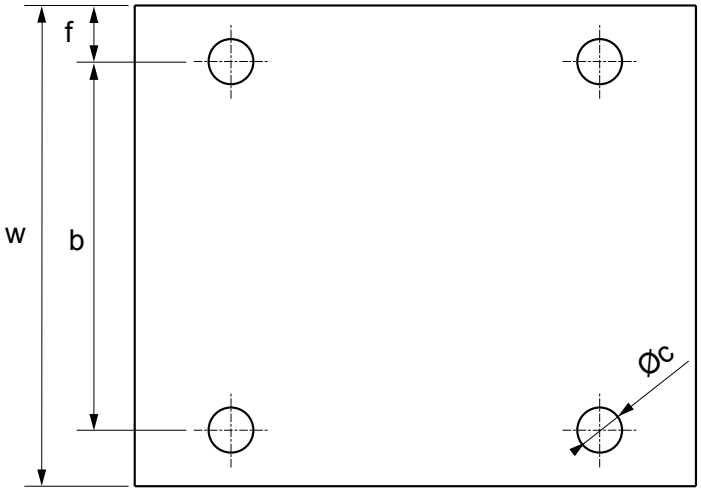
Technical features

Construction in stainless steel AISI 304
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Self-centering connection segment between lower and upper plate
Protection against electrostatic discharges
Great resistance to lateral forces
Locking nuts to maintain the raised position simplify the installation and the removal of the load cell
Dummy load cells for liquid weighing
ATEX version available for zones 1&21, 2&22

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing (mm)





Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** Ø (mm)	**d** (mm)	**e** (mm)	**f** (mm)	**Code**
12.500	175	150	96	115	115	N°8 x 14	10	30	17,5	**KCPN10**
										KCPN10PRO
15.000										**KCPN15**
30.000	230	200	118	160	160	N°8 x 17	10	30	17,5	**KCPN30**
100.000	320	320	154	250	250	N°8 x 23	20	35	35	**KCPN100**

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	**Description**	**Code**	
	Galvanised stay rod with ball-and-socket joints. Max 100 kN. For proper installation, 2xLNKST are needed.	**LNK2635**	
	Single plate for stay rod. Fitted with fixing screw. For proper installation, LNK2635 and a second LNKST are needed.	**LNKST**	
	Grounded cable for weighing kit. 16 mm^2 cable, 13 mm eyelets.	**GNDC**	

KCP50 | MOUNTING KIT

UNI EN 1090

ZINC PLATED STEEL

Mounting kits for 30.000 kg CPX and CPA series Compression load cells from 20.000 kg to 50.000 kg. Suitable for weighing large capacity silos, tanks and hoppers.

Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	UNI EN 1090	Code	
	Zinc-plated steel	27	CPX - 30.000 CPA - From 20.000 to 50.000	130	100	-	**KCP50-NS** (Load cell not included)	
	Zinc-plated steel	27	CPX - 30.000 CPA - From 20.000 to 50.000	130	100	•	**KCP50-1090-NS** (Load cell not included)	

ATEX certification

Option	Description	Code	
	ATEX declaration for the PLATFORM / LOAD CELL ASSEMBLY KIT (for load cell ATEX declaration see CCATEX code). Option to be offered only if the platform is ordered without the indicator, otherwise refer to the available certifications for the chosen weight indicator.	**DCATEXMECH**	

Technical features

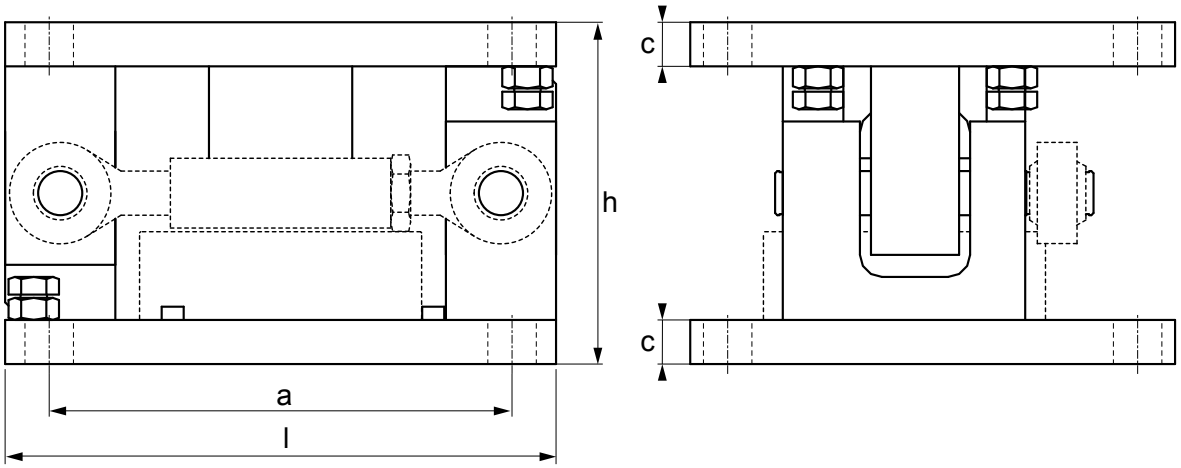
Construction in zinc-plated steel
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Great resistance to lateral forces
Locking nuts to maintain the raised position simplify the installation and the removal of the load cell
Dummy load cells for liquid weighing

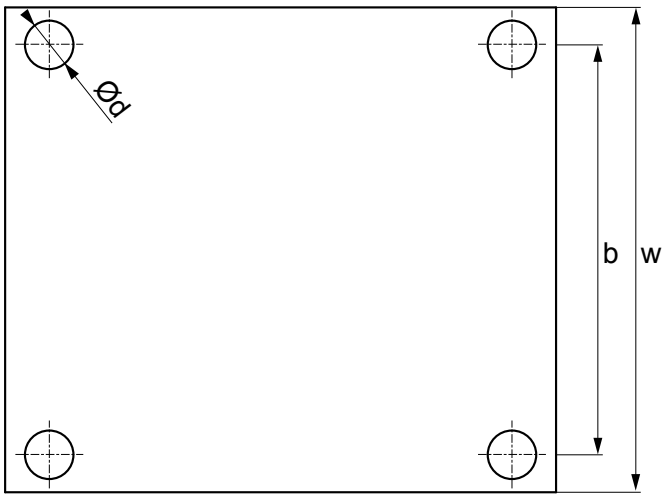
Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Zinc-plated-steel stay rod with ball-and-socket joints. Max 29 kN.	**LNK20**	
	Grounded cable for weighing kit. 16 mm² cable, 13 mm eyelets.	**GNDC**	

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

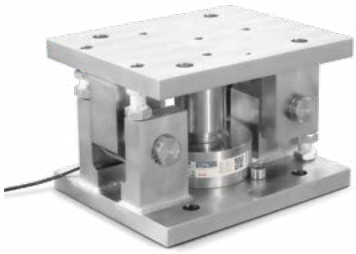
Technical drawing (mm)





Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** (mm)	**d** Ø (mm)	**Code**
50.000	250	230	155	210	186	20	22	**KCP50-NS**
								KCP50-1090-NS

KCP100H | MOUNTING KIT



Mounting kits for CPX series Compression load cells from 50.000 to 100.000 kg. Suitable for weighing large capacity silos, tanks, hoppers.

ZINC PLATED STEEL

UNI EN 1090

Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	UNI EN 1090	Code	
	Zinc-plated steel	90	CPX - From 50.000 to 100.000 kg	400	200	-	**KCP100H** (Load cell not included)	
	Zinc-plated steel	90	CPX - From 50.000 to 100.000 kg	400	200	•	**KCP100H-1090** (Load cell not included)	

Technical features

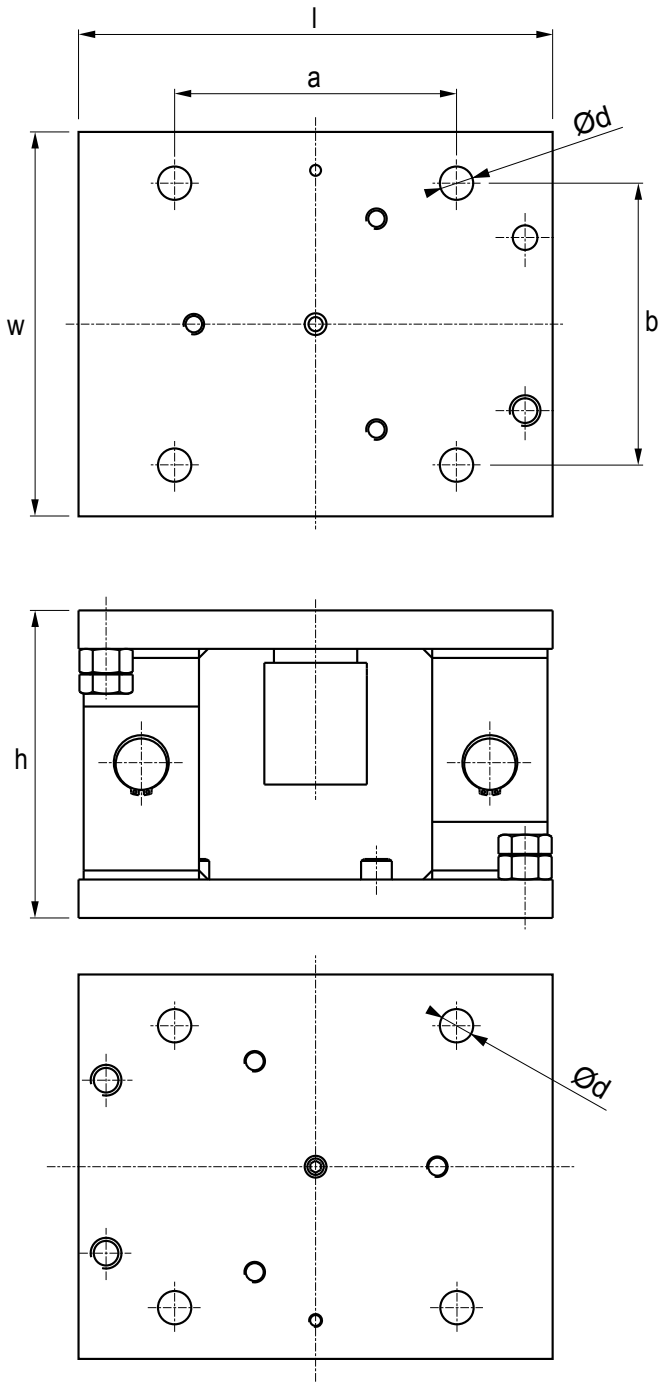
Contruction in zinc-plated steel
Double anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Great resistance to lateral forces
Locking nuts to maintain the raised position simplify the installation and the removal of the load cell
Stainless steel structure available upon request

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Grounded cable for weighing kit. 16 mm² cable, 13 mm eyelets.	**GNDC**	

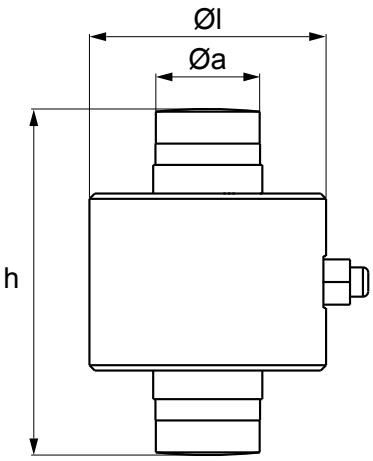
This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing (mm)



Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** (mm)	**d** Ø (mm)	**Code**
100.000	370	300	240 / 250	220	220	30	26	**KCP100H**

RCA | COLUMN



Version codes

Max (kg)	**l** Ø (mm)	**h** (mm)	**a** Ø (mm)	**Code**	
30.000	88,9	130	39	**RCA30C4**	

ATEX certification

Option	**Description**	**Code**	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

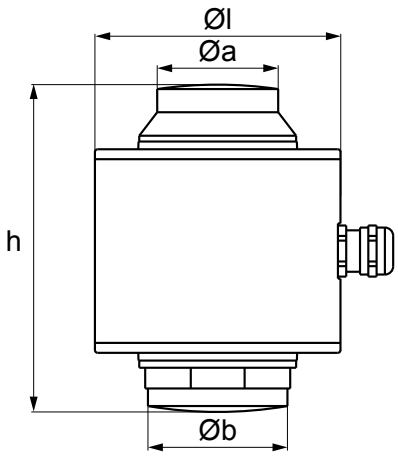
Maximum number of verification intervals	nLC = 4.000
Maximum capacity	30.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	± 0,011 % / °C
Temperature effect on zero	± 0,0014 % / °C
Creep at nominal load over 30 minutes	0,018 % F.S.
Input resistance	815 ± 20 Ω
Output resistance	700 ± 0.35 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	± 0,013 % F.S.
Insulation resistance	5.000 MΩ / 50 V
Zero balance	< ± 2,5 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Shielded cable	Ø 7 mm l = 20 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	**Material**	**Description**	**Code**	
	Zinc-plated steel	Kit of 2 jointed cups for self-alignment and fixing plate	**KRCA**	

RL5426 PLUS | COLUMN

OIML R60 · IP69K · C6 · STAINLESS STEEL



Version codes

Max (kg)	l Ø (mm)	h (mm)	Code	
20.000	88,9	118,5	RL5426-20T	
30.000			RL5426-30T	
40.000			RL5426-40T	
50.000			RL5426-50T	

Technical features

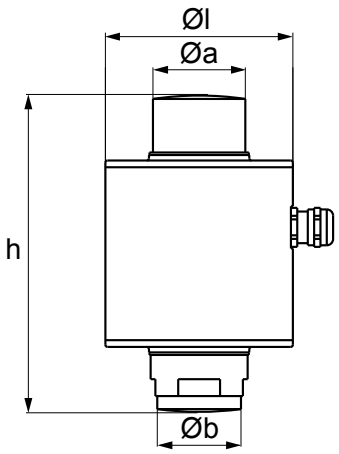
Maximum number of verification intervals	nLC = 6.000
Maximum capacity	50.000 kg
Y value	Vmin = Emax / 18.000
Nominal rated output	2 mV/V ± 0,0001 %
Temperature effect on full scale output	0,008 % F.S. / 10°C
Temperature effect on zero	0,02 % F.S. / 10°C
Creep at nominal load over 30 minutes	0,01 % F.S.
Input resistance	800 ± 3 Ω
Output resistance	700 ± 3 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,015 % F.S.
Insulation resistance	> 5.000 MΩ
Zero balance	-
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-35 °C / +70 °C
Storage temperature range	-40 °C / +80 °C
Safe overload	120 % F.S.
Breaking load	300 % F.S.
Shielded cable	 Ø 6 mm l = 20 m

Options & accessories

Mounting kits	Material	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	-	-	-	**173798**	
	Zinc-plated steel	Up to 40.000 (load cell capacity)	82	67	**173801**	

RL5416 | COLUMN

OIML R60 · IP69K · C4 · STAINLESS STEEL



Version codes

Max (kg)	l Ø (mm)	h (mm)	Code	
20.000	88,9	150	**RL5416-20T**	
30.000			**RL5416-30T**	
40.000			**RL5416-40T**	
50.000			**RL5416-50T**	

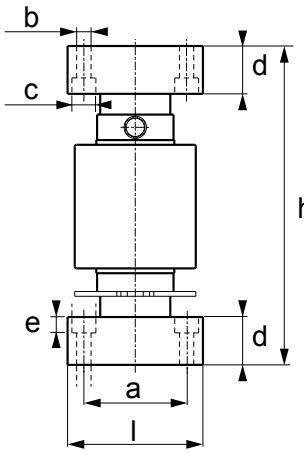
Technical features

Maximum number of verification intervals	nLC = 4.000
Maximum capacity	50.000 kg
Y value	Vmin = Emax / 14.000
Nominal rated output	2 mV/V ± 0,05 %
Temperature effect on full scale output	0,01 % F.S. / 10°C
Temperature effect on zero	0,02 % F.S. / 10°C
Creep at nominal load over 30 minutes	0,014 % F.S.
Input resistance	800 ± 5 Ω
Output resistance	700 ± 3 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,022 % F.S.
Insulation resistance	> 5.000 MΩ
Zero balance	-
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-35 °C / +70 °C
Storage temperature range	-40 °C / +80 °C
Safe overload	120 % F.S.
Breaking load	300 % F.S.
Shielded cable	 Ø 6 mm l = 20 m

Options & accessories

Mounting kits	Material	Description	Code	
	Stainless steel	Kit of 2 jointed cups for self-alignment of the load cells	**173793**	

RCPT | COLUMN



Version codes

Max (kg)	l Ø (mm)	h (mm)	a (mm)	b Ø (mm)	c Ø (mm)	d (mm)	e (mm)	Code	
20.000	85	200	64,5	N°4 x 9	N°4 x 15	30	10	**RCPT20C3-1**	
30.000								**RCPT30C3NC-1***	
30.000								**RCPT30C3-1**	
50.000								**RCPT50C3-1**	

**NC = version without cups*

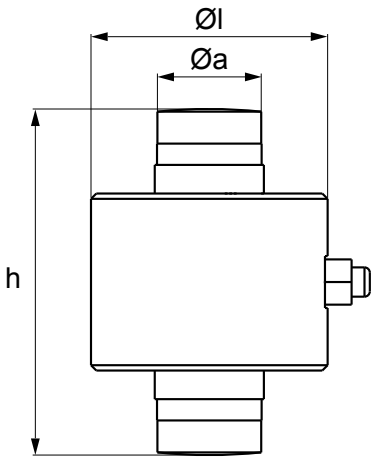
ATEX certification

Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	**CCATEX-1**	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	50.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	2 mV/V ± 0,1 %
Temperature effect on full scale output	0,002 % / °C
Temperature effect on zero	0,002 % / °C
Creep at nominal load over 30 minutes	0,02 % F.S.
Input resistance	700 ± 20 Ω
Output resistance	703 ± 7 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	-
Insulation resistance	> 5.000 MΩ
Zero balance	± 1 % F.S.
Compensated temperature range	- 10 °C / + 40 °C
Operating temperature range	- 30 °C / +70 °C
Safe overload	150 % F.S.
Breaking load	250 % F.S.
Shielded cable	Ø 5 mm l = 18 m

RCD | COLUMN



Version codes

Max (kg)	**l** Ø (mm)	**h** (mm)	**a** Ø (mm)	**Codice**	
30.000	88,9	130	39	**RCD30C4**	
40.000				**RCD40C4**	
50.000				**RCD50C4**	

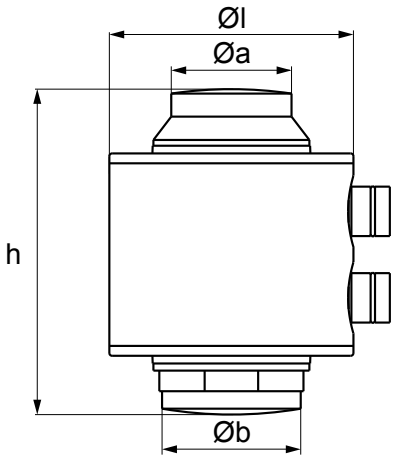
Technical features

Maximum number of verification intervals	nLC = 4.000
Maximum capacity	50.000 kg
Y value	Vmin = EMax / 10.000
Nominal rated output	200.000 digits
Temperature effect on full scale output	0,0012 % / °C
Temperature effect on zero	0,0016 % / °C
Creep at nominal load over 30 minutes	0,021 % F.S.
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	± 0,014 % F.S.
Zero balance	-
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-20 °C / +60 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Converter rate	Max. 100 conv. / sec.
RS485 Interface communication rate	4.800 / 19.200 bit / sec.
Communication technology	RS485
Communication protocol	Dini Argeo proprietary protocol
Internal resolution	24 bit
Shielded cable	 Ø 9 mm l = 18 m

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Mounting kits	**Material**	**Description**	**Code**	
	Zinc-plated steel	Kit of 2 jointed cups for self-alignment and fixing plate	**KRCA**	

RL5426DC | COLUMN



Version codes

Max (kg)	l Ø (mm)	h (mm)	Code	
30.000	88,9	118,5	RL5426DC-30T	
40.000			RL5426DC-40T	

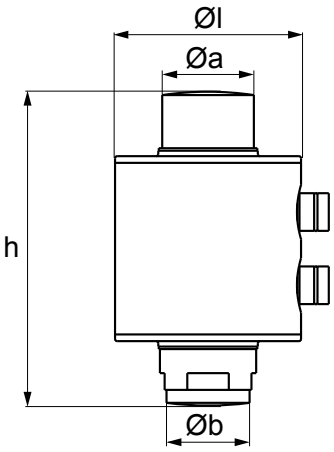
Technical features

Maximum number of verification intervals	nLC = 6.000
Maximum capacity	40.000 kg
Y value	Vmin = Emax / 18.000
Nominal rated output	60.000 digits
Temperature effect on full scale output	0,004 % F.S. / 5°C
Temperature effect on zero	0,01 % F.S. / 5°C
Creep at nominal load over 30 minutes	0,01 % F.S.
Nominal range of excitation voltage	8 - 15 Vdc
Combined error	0,015 % F.S.
Zero balance	± 1 % F.S.
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-35 °C / +70 °C
Safe overload	150 % F.S.
Breaking load	300 % F.S.
Converter rate	Max. 40 conv. / sec.
RS485 Interface communication rate	Max. 100 kHz
Communication technology	RS485
Communication protocol	Rice Lake proprietary protocol
Internal resolution	24 bit
Shielded cable	 Ø 7 mm l = 4,5 / 9,5 / 50 m

Options & accessories

Mounting kits	Material	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Stainless steel	-	-	-	173798	
	Zinc-plated steel	Up to 40.000 kg (load cell capacity)	82	67	173801	

RL5416DC | COLUMN



Version codes

Max (kg)	l Ø (mm)	h (mm)	Code	
30.000	88,9	150	RL5416DC-30T	
40.000			RL5416DC-40T	

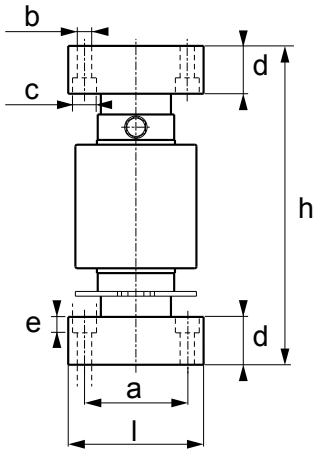
Technical features

Maximum number of verification intervals	nLC = 4.000
Maximum capacity	40.000 kg
Y value	Vmin = Emax / 18.000
Nominal rated output	40.000 punti
Temperature effect on full scale output	0,01 % F.S. / 10°C
Temperature effect on zero	0,02 % F.S. / 10°C
Creep at nominal load over 30 minutes	0,014 % F.S.
Nominal range of excitation voltage	8 - 15 Vdc
Combined error	0,022 % F.S.
Zero balance	-
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-35 °C / +70 °C
Safe overload	120 % F.S.
Breaking load	300 % F.S.
Converter rate	Max. 40 conv. / sec.
RS485 Interface communication rate	Max. 100 kHz
Communication technology	RS485
Communication protocol	Rice Lake proprietary protocol
Internal resolution	24 bit
Shielded cable	 Ø 7 mm l = 4,5 / 9,5 / 50 m

Options & accessories

Mounting kits	Material	Description	Code	
	Stainless steel	Kit of 2 jointed cups for self-alignment of the load cells	173793	

RCPTD | COLUMN



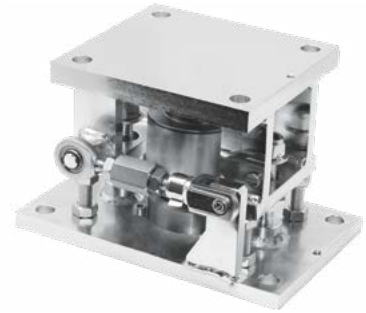
Version codes

Max (kg)	**l** Ø (mm)	**h** (mm)	**a** (mm)	**b** Ø (mm)	**c** Ø (mm)	**d** (mm)	**e** (mm)	**Code**	
30.000	85	200	64,5	N°4 x 9	N°4 x 15	30	10	**RCPTD30C4-2**	

Technical features

Maximum number of verification intervals	nLC = 4.000
Maximum capacity	30.000 kg
Y value	-
Nominal rated output	60.000 digits
Temperature effect on full scale output	± 0,02 % F.S.
Temperature effect on zero	-
Creep at nominal load over 30 minutes	± 0,03 % F.S.
Nominal range of excitation voltage	10 - 18 Vdc
Combined error	± 0,01 % F.S.
Zero balance	± 0,02 % F.S. / 10 °C
Compensated temperature range	-10 °C / +40° C
Operating temperature range	-30 °C / +70° C
Safe overload	150 % F.S.
Converter rate	Max. 20 conv. / sec.
RS485 Interface communication rate	Max. 100 kHz
Communication technology	RS485
Communication protocol	Dini Argeo proprietary protocol
Internal resolution	24 bit
Shielded cable	 Ø 5 mm l = 18 m

173801 | MOUNTING KIT



Mounting kits for RL5426 and RL5426DC series Column load cells up to 40.000 kg. Suitable for weighing large capacity silos, tanks and hoppers.

ZINC PLATED STEEL

Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Zinc-plated steel	20	Up to 40.000 kg (load cell capacity)	82	67	**173801**	

Technical features

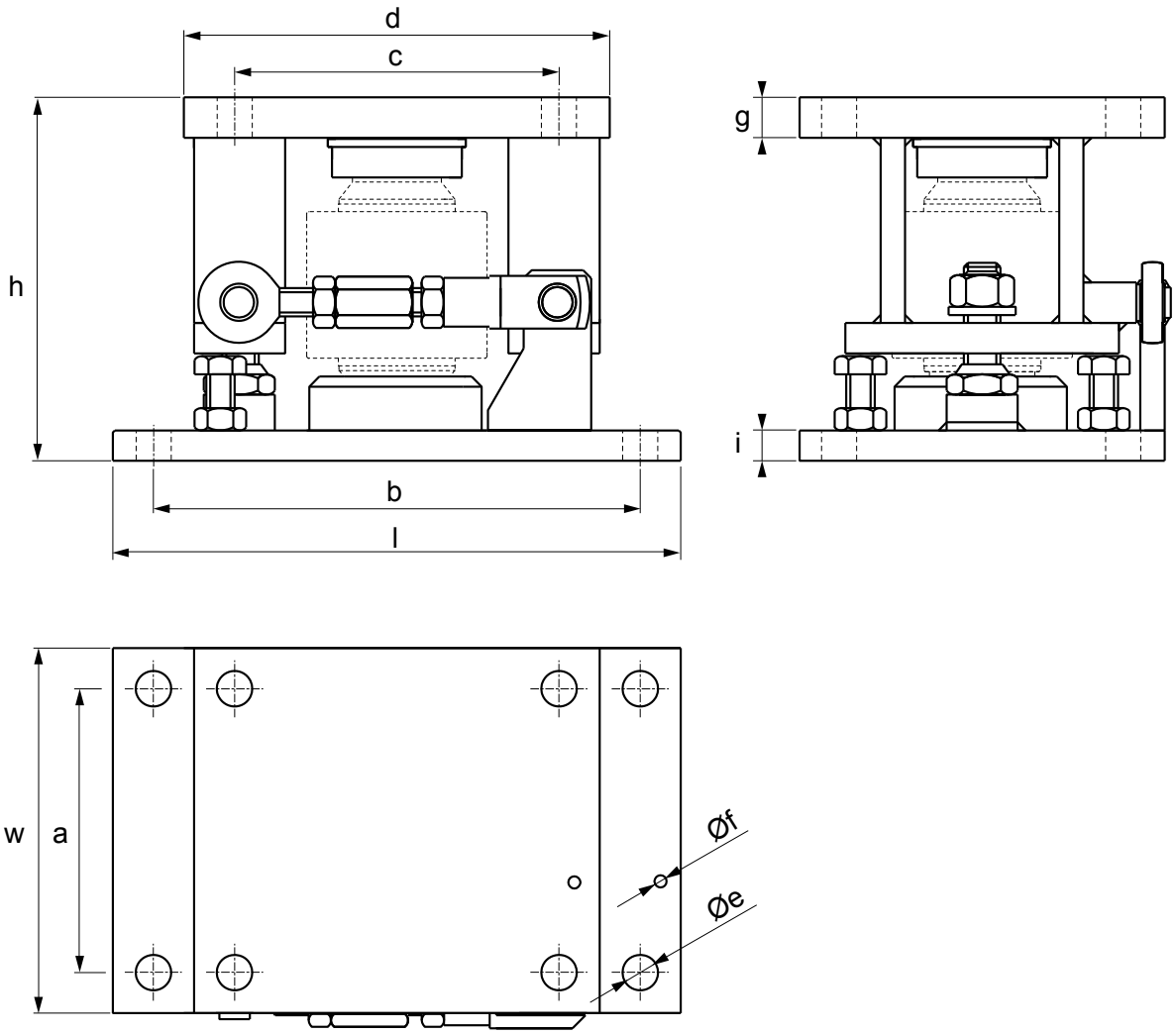
Construction in zinc-plated steel
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Great resistance to lateral forces
Locking nuts to maintain the raised position simplify the installation and the removal of the load cell

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Grounding cable for weighing kit. 16 mm^2 section cable, 20 mm eyelets.	**GNDC20-1**	

This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing (mm)



Max (kg)	**l** (mm)	**w** (mm)	**h** (mm)	**a** (mm)	**b** (mm)	**c** (mm)	**d** (mm)	**e** Ø (mm)	**f** Ø (mm)	**g** (mm)	**i** (mm)	**Code**
40.000	280	180	180	140	240	160	160	17,5	N°2 x M8	200	150	**173801**

LOAD PINS

Load Pins are a key component in the construction of weighing or safety control systems. Designed and manufactured specifically for each integrated solution, they are suitable for a wide range of applications and areas: industrial, agricultural, logistics, automotive, civil, construction.

Particularly suitable for moving applications such as cranes, overhead cranes, bulldozers, hoists and robotic booms. Dini Argeo designs and manufactures customized Load Pins to meet customer's needs and to suit any weighing application. Contact our sales office for further information.

ACCESSORIES
LOAD CELLS

“Dini Argeo offers a complete range of junction boxes and accessories to connect load cells to weighing electronics.”

ABS | JUNCTION BOXES

Option	Dimensions (mm)	Equalisation	Fairleads	Material	Surge Arresters	IP Rate	Ex	Code	
	120 x 80 x 55	-	4+1 (PG9)	ABS	-	IP67	-	**JB4**	
	120 x 80 x 55	-	4+1 (PG9)	ABS	-	IP67	•	**JB4A**	
	120 x 80 x 55	•	4+1 (PG9)	ABS	-	IP67	-	**JB4Q**	
	120 x 80 x 55	•	4+1 (PG9)	ABS	-	IP67	•	**JB4QA**	
	120 x 80 x 55	•	4+1 (PG9)	ABS	•	IP67	-	**JB4PLUS**	
	220 x 120 x 90	•	8+1 (PG11)	POLYESTER	•	IP66	-	**JB8Q-1**	
	220 x 120 x 90	•	10+1 (PG9)	POLYESTER	•	IP66	-	**JB10Q**	
	220 x 120 x 90	•	10+1 (PG9)	POLYESTER	•	IP66	-	**JB10QD-1**	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code	
	Anti-condensation, insulating and sealing gel. Useful to protect the electronic circuits of the weighing system, even under prolonged immersion.	**GELBOX**	

• As standard

STAINLESS STEEL | JUNCTION BOXES

Option	Dimensions (mm)	Equalisation	Fairleads	Material	Surge Arresters	IP Rate	Ex	Code
		-	1+1 (PG9)	Stainless steel	-	IP68	-	**JB1I**
	190 x 130 x 45	-	1+1 (PG9)	Stainless steel	-	IP66	•	**JB1AI**
	190 x 130 x 45	•	2+1 (PG9)	Stainless steel	-	IP66	•	**JB2QAI**
	190 x 130 x 45	•	3+1 (PG9)	Stainless steel	-	IP66	•	**JB3QAI**
	190 x 130 x 45	-	4+1 (PG9)	Stainless steel	-	IP66	•	**JB4AI**
	155 x 158 x 45	•	4+1 (PG9)	Stainless steel	-	IP65	-	**JB4QI**
	190 x 130 x 45	•	4+1 (PG9)	Stainless steel	-	IP66	•	**JB4QAI**
	221 x 105 x 39	•	4+1 (PG9)	Stainless steel	•	IP68 IP69K	-	**JB4QIP69K**
	190 x 132 x 50	•	6+1 (PG9)	Stainless steel	-	IP65	-	**JB6QI**
	343 x 132 x 66	•	10+1 (PG11)	Stainless steel	•	IP68 IP69K	•	**JB10QIP69K-1**

Main options and accessories *(for a complete list visit www.diniargeo.com)*

Option	Description	Code
	Anti-condensation, insulating and sealing gel. Useful to protect the electronic circuits of the weighing system, even under prolonged immersion.	**GELBOX**

• As standard

ZBA1S | ZENER BARRIER

ZBA1S Zener barrier is the perfect solution for the connection between a weighing terminal and a weight receiver system in the ATEX zone. ZBA1S integrates three barriers in one, protecting the excitation, signal and sense line.
This feature makes the installation easier, especially in small spaces.
Availble also as ATEX ABS housing kit.

Version codes

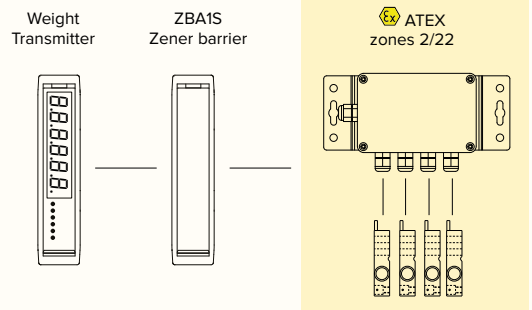
Option	Description	Code	
	Intrinsic protection three channel Zener barrier. Specific for connection to load cells, for mounting on DIN rail in a safe area, or in a flame-proof case.	**ZBA1S**	
	Shielded 6 x 0,25 mm^2 cable (suitable for Ex zones). €/m	**LCCB**	
		**LCCBA**	
	Shielded, blue, 6 x 0,22 mm^2 cable, for EX i (2GD) applications. €/m	**EXCB6**	

ATEX certification

Option	Description	Code	
	ATEX declaration for the whole system with Dini Argeo Zener barriers. Ex II 2G IIC T6 Gb X e Ex II 2D IIIC T125°C Db X system, with label of the whole system, for weight indicator connected to Dini Argeo zener barriers, connected to a mechanical structure with ATEX load cells (each cell must be certified with CCATEX option). Provided with descriptive document of the assembly and ATEX EU declaration of conformity of the assembly (EN and IT).	**DCATEXMB4**	

Technical features

Three channels passive Zener barrier for excitation, signal and sense line.
Ex marking: ATEX II (1)G, II (1)D, I (M1) IECEx [circuit(s) in zone 0/1/2]
Protection: [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ Tamb ≤ +60 °C)
Equipped with 3 channels for the protection of the the excitation line (CN3/CN6), signal line (CN1/CN4) and the sense line (CN2/CN5), for improved signal stability.
“SLIM” type case, iper-compact, for DIN rail installation.
Operating temperature: -20 °C ÷ +60 °C.
Storage temperature: -25 °C ÷ +70 °C
Rating: 14 Vrms differential and 8 Vrms through earth for CN3 connector, 20 Vrms for the CN1 & CN2
Maximum Security Voltage (Um): 250 Vrms
Maximum Security Current (current interruption capability): 1500 A
Protection rating: IP20



LCCB | CABLE

Shielded cable for connection of weight indicators to load cells or junction boxes.

Version codes

Option	Description	Code	
	Shielded 6 x 0,25 mm^2 cable (suitable for Ex zones). €/m	**LCCB**	
	Protection sheathing for shielded cable. €/m	**PRCB**	

Technical features

Type	6 pins x 0,25 mm^2.
Conductor	Flexible bare copper class 5.
Insulation	PVC compound type R2.
Shield	Tinned copper braid shield; coverage 80%.
Sheath	PVC inner sheath. Gray PVC outer sheath, 5.8 mm diameter.
Laying	Fixed. Maximum drawing strength 50 N/mm^2 of total copper section. Minimum bending radius: outer diameter of cable times 6.
Temperature range	-40 / +80 °C

LCCBA | CABLE

Armoured cable for connection of weight indicators to load cells or junction boxes.

Version codes

Option	Description	Code	
	Armoured 6 x 0,25 mm^2 cable (suitable for Ex zones). €/m	**LCCBA**	

Technical features

Type	6 pins x 0,25 mm^2.
Conductor	Flexible bare copper, class 14 x 0,15 mm (0,25 mm^2 - AWG24).
Insulation	Composed of PVC (Y), hardness 94 Sha, nominal diameter 1.25 ± 0.1 mm.
Shield	Iron-zinc alloy armour, coverage > 85%.
Sheath	PVC inner sheath, 5 mm diameter. Transparent PVC outer sheath, 8 mm diameter.
Laying	Fixed. Minimum bending radius: outer diameter of cable times 7.
Temperature range	-15 / +70 °C.

LCCBM | CABLE

Shielded cable for connection of weight indicators to load cells or junction boxes.

Version codes

Option	Description	Code	
	Shielded 4 x 0,34 mm² cable for moving applications. €/m.	**LCCBM**	
	Protection sheathing for shielded cable. €/m	**PRCB**	

Technical features

Type	4 pins x 0,34 mm².
Conductor	Extra-flexible copper class 6.
Insulation	Polyolefin.
Shield	Tinned copper braid shield; coverage ≥ 85%.
Sheath	Green, abrasion-resistant Polyurethane.
Laying	Dynamic. Minimum bending radius: outer diameter of cable times 6.

EXCB6 | CABLE

Shielded cable for connection of weight indicators to load cells or junction boxes.

Version codes

Option	Description	Code	
	Shielded, blue, 6 x 0,22 mm^2 cable, for EX i (2GD) applications. €/m	**EXCB6**	

Technical features

Type	6 pins x 0,22 mm^2.
Conductor	Stranded tinned copper class 6.
Insulation	PVC + 105°.
Shield	Tinned copper braid shield; coverage 80%.
Sheath	PVC inner sheath. Blue Polyurethane outer sheath, 5.8 mm diameter.
Laying	Fixed. Minimum bending radius: outer diameter of cable times 7.
Temperature range	-40 / +80 °C

HIGH SPEED PROCESS & AUTOMATION
WEIGHT TRANSMITTERS

“These weight transmitters are designed for use in applications where a very high sampling rate is required in order to weigh with extreme precision in fractions of a second.

Ideal for belt weighing, micro-dosing and dosing, in-line filling and process control applications.”

DINI ARGEO

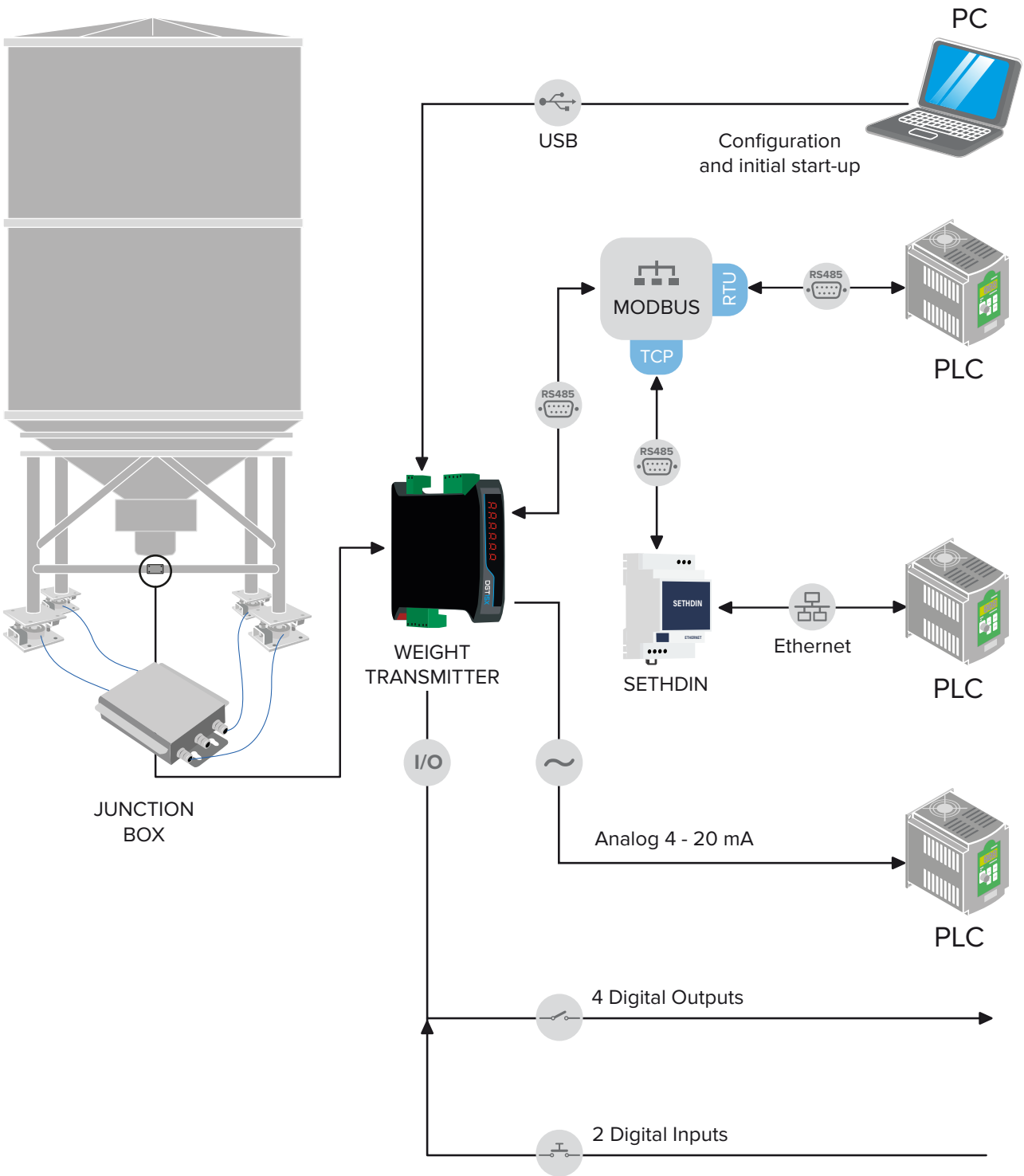
HIGH SPEED PROCESS & AUTOMATION
WEIGHT TRANSMITTERS

Comparative table

		DGT1SX	DGT1SX CHECK	DGT4X	DGT4X DIGITAL
Number of scales / channels		1	1	Up to 4	Up to 1
Conversion rate		Up to **4.800 Hz**	Up to **4.800 Hz**	Up to **2.600 Hz**	Up to **1.600 Hz**
Web server		•	•	•	•
Integrated fieldbus		•	•	•	•
Modbus RTU		•	•	•	•
RS485		•	•	•	•
RS232				•	•
USB		•	•	•	•
Digital I/O		•	•	•	•
Analog Output		•	•	•	•
Case		ABS	ABS	ABS	ABS
Electric approvals	**UL Listed**	Upon request	Upon request	Upon request	Upon request
Metrological approvals	**OIML R61 MID**	•	•	•	
	OIML R51	•	•	•	
	OIML R76	•	•	•	•
	EU Type Examination certificate	•	•	•	•

EXAMPLE OF SILO WEIGHING SYSTEM WITH ANALOG OUTPUT AND RS485

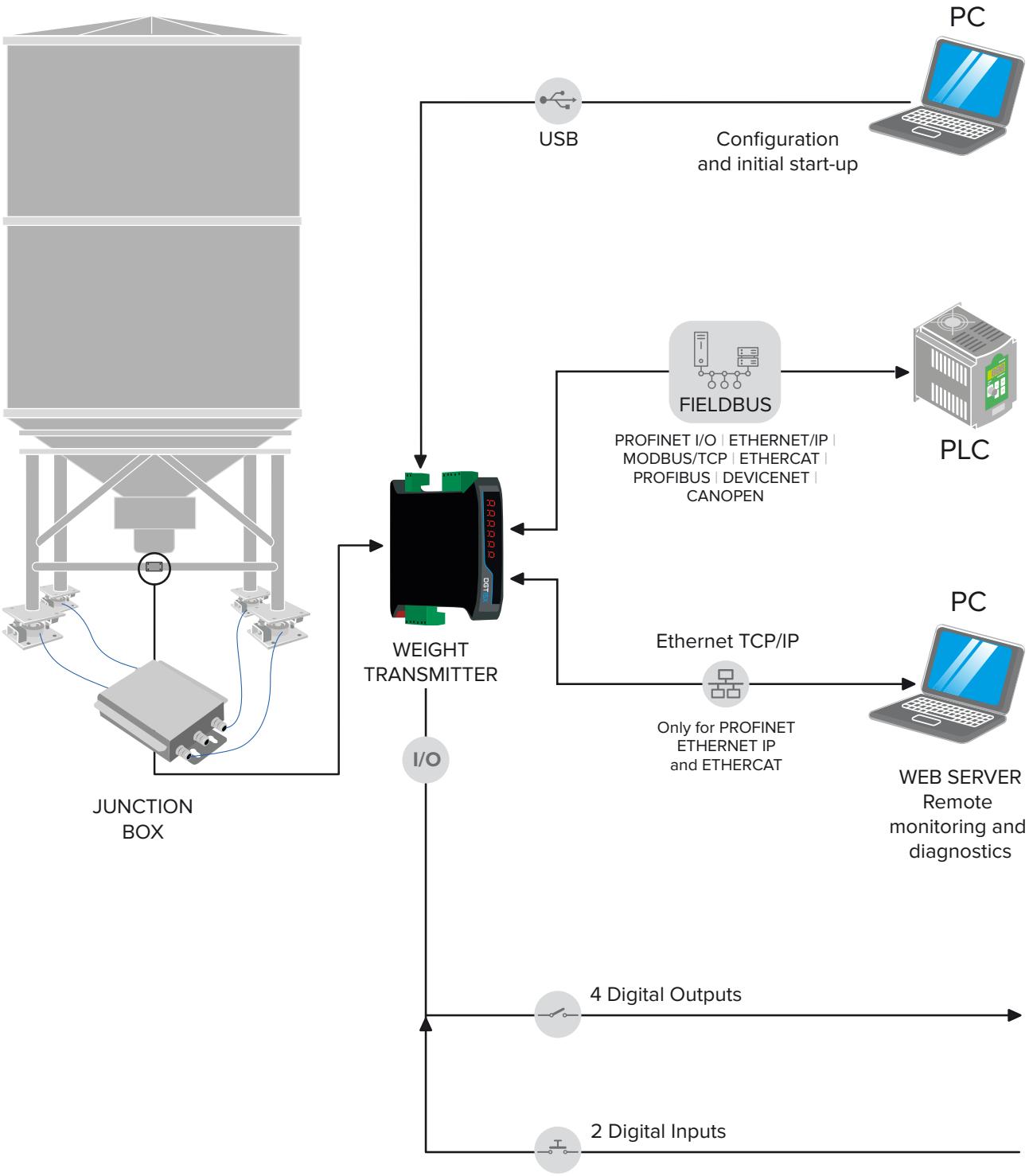
AVAILABLE FOR ATEX ZONES 1 & 21 and 2 & 22



Note: If the DGT4X line is used, the junction box is not required.

EXAMPLE OF A SILO WEIGHING SYSTEM WITH FIELDBUS VERSION

AVAILABLE FOR ATEX ZONES 1 & 21 and 2 & 22



Note: If the DGT4X line is used, the junction box is not required.

DGT1SX | 1 CHANNEL

WITH INTEGRATED FIELDBUS & WEB SERVER

Highlights:
- high-speed sampling
- load cell status diagnostics
- USB port for quick programming

LOAD CELL FAILURE ALARM | 4.800 Hz SUPER FAST | OIML APPROVED | USB PORT | WEB SERVER

Main features

Technical features					
Number of scales / channels		1			
Calibration		Electronic (Theoretical)	Real calibration with sample weights	Via Web server	Via XSpeedTool
Conversion rate		Up to 4.800 Hz			
Maximum display digits		0...800.000			
Maximum load cell number		Up to 16 x 350 Ω			
Minimum sensitivity	**High resolution**	0,01 µV/d			
	Legal for trade	0,3 µV/e			
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e			
Load cell excitation voltage		5 V			
Communication ports		See version table			
Communication protocols		Modbus RTU, ASCII or fieldbus			
Communication rate		**Via serial port**		**Via Fieldbus**	
		Up to 1.600 Hz		Up to 120 Hz	
Configuration PC utility		DiniTools, XSpeedTool			
Display		Red LED 8 mm, 6 digits			
Keyboard		Mechanical, 5 keys			
Case		ABS (UL compliant)			
Power supply		12÷24 Vdc, 5 W			
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**	
		-20 °C / +60 °C	-10 °C / +40 °C	85 %	

Approvals	Type	Description
UL Listed	Electric	Upon request
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*5÷48 Vdc*	-
2 Digital outputs	*48 Vdc*	*500 mA*
Opto-isolated as standard	*Yes*	

Version codes

Fieldbus	Analog output	Modbus RTU	RS485	2 IN / 4 OUT	USB	Web server	Code	
		●	●	●	●		DGT1SX	
		●	●	●	●		DGT1SX-AN	
PROFINET	●			●	●	●	DGT1SX-PRONET	
EtherNet/IP	○			●	●	●	DGT1SX-ETHIP	
Modbus TCP/IP	○			●	●	●	DGT1SX-MODTCP	
EtherCAT	○			●	●		DGT1SX-ETHCAT	
Profibus	○			●	●		DGT1SX-PB	
CANopen	○			●	●		DGT1SX-CANOP	
DeviceNet	○			●	●		DGT1SX-DEVNET	

o Special version, ask for estimate.

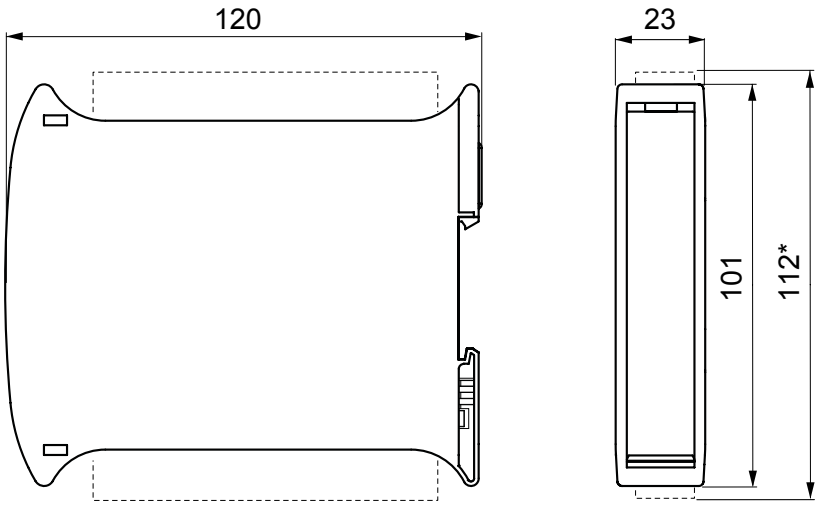
Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	MDR2012	

		Description	Code	
PC SOFTWARES		"XSPEED" PC software with oscilloscope function for system diagnostics and weighing filter optimization.	XSPEED	

Technical drawing (mm)

* Maximum encumbrance of the extractable connection terminals



DGT1SX CHECK | 1 CHANNEL

WITH INTEGRATED FIELDBUS & WEB SERVER

Highlights:
- high-speed sampling
- load cell status diagnostics
- automatic package detection
- USB port for quick programming
- memory of the last 10 weight readings

LOAD CELL FAILURE ALARM | 4.800 Hz SUPER FAST | OIML APPROVED | USB PORT | WEB SERVER

Main features

Technical features					
Number of scales / channels		1			
Calibration		Electronic (Theoretical)	Real calibration with sample weights	Via Web server	Via XSpeedTool
Conversion rate		Up to 4.800 Hz			
Maximum display digits		0...800.000			
Maximum load cell number		Up to 16 x 350 Ω			
Minimum sensitivity	**High resolution**	0,01 µV/d			
	Legal for trade	0,3 µV/e			
Legal for trade number of intervals		Up to 10.000e or multirange 3.000 + 3.000e			
Load cell excitation voltage		5 V			
Communication ports		See version table			
Communication protocols		Modbus RTU, ASCII or fieldbus			
Communication rate		**Via serial port**	**Via Fieldbus**	**Via Modbus RTU**	
		Up to 1.600 Hz	Up to 120 Hz	Up to 100 Hz	
Configuration PC utility		XSpeedTool			
Display		Red LED 8 mm, 6 digits			
Keyboard		Mechanical, 5 keys			
Case		ABS, for DIN rail (120 x 23 x 112 mm)			
Power supply		12÷24 Vdc			
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**	
		-20 °C / +60 °C	-10 °C / +40 °C	85 % without condensation	

Approvals	Type	Description
UL Listed	Electric	Upon request
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*5÷48 Vdc*	-
4 Digital outputs	*48 Vdc*	*500 mA*
Opto-isolated as standard	*Yes*	

Version codes

Fieldbus	Analog output	Modbus RTU	RS485	2 IN / 4 OUT	USB	Web server	Code	
		•	•	•	•		DGT1SXCK	
PROFINET	o			•	•	•	DGT1SXCK-PRONET	
EtherNet/IP	o			•	•	•	DGT1SXCK-ETHIP	
Modbus TCP/IP	o			•	•	•	DGT1SXCK-MODTCP	
EtherCAT	o			•	•		DGT1SXCK-ETHCAT	

o Special version, ask for estimate.

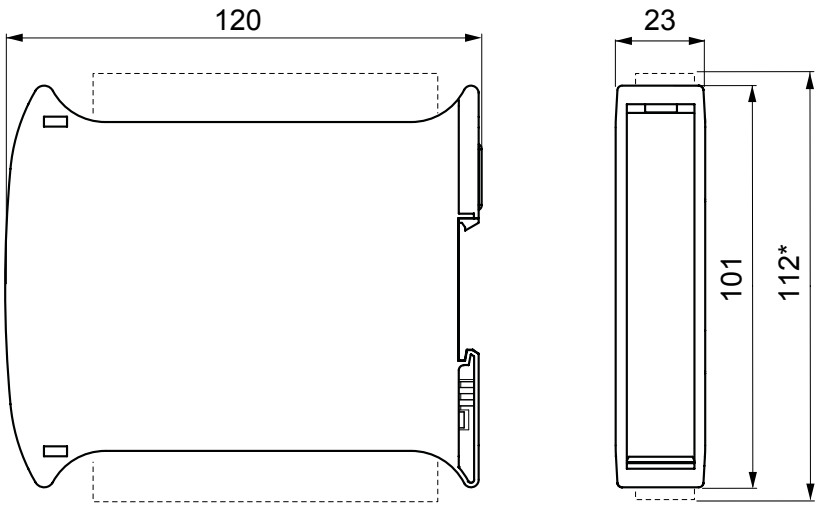
Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	MDR2012	

		Description	Code	
PC SOFTWARES		"XSPEED" PC software with oscilloscope function for system diagnostics and weighing filter optimization.	XSPEED	

Technical drawing (mm)

* Maximum encumbrance of the extractable connection terminals



DGT4X | 4 CHANNELS

WITH INTEGRATED FIELDBUS & WEB SERVER

Highlights:
- smart junction box mode
- load unbalance warning
- optional digital load cell management
- faulty load cell exclusion
- USB port for quick programming

2.600 Hz SUPER FAST | OIML APPROVED | USB PORT | WEB SERVER | JBOX MODE | UP TO 4 SCALES

Main features

Technical features					
Number of scales / channels		Up to 4			
Calibration		Electronic (Theoretical)	Real calibration with sample weights	Via Web server	Via XSpeedTool
Conversion rate		**Single-channel (1 scale)**	**Multi-channel (up to 4 scales)**		
		Up to 2.600 Hz	Up to 9.000 Hz		
Maximum display digits		0...800.000			
Maximum load cell number		Up to 16 x 350 Ω			
Minimum sensitivity	**High resolution**	0,01 µV/d			
	Legal for trade	0,3 µV/e			
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e			
Load cell excitation voltage		5 V			
Communication ports		See version table			
Communication protocols		Modbus RTU, ASCII or fieldbus			
Web server		See version table			
Communication rate		**Via serial port**	**Via Fieldbus**		
		Up to 1.300 Hz	Up to 120 Hz		
Configuration PC utility		DiniTools, XSpeedTool			
Display		Red LED 14,2 mm, 7-segment, 6 digits			
Keyboard		Mechanical, 5 keys			
Case		ABS			
Power supply		12÷24 Vdc, 5 W			
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**	
		-20 °C / +60 °C	-10 °C / +40 °C	85 %	

Approvals	Type	Description
UL Listed	Electric	Upon request
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac 60 Vdc*	*500 mA*
Opto-isolated as standard	*Yes*	

Version codes

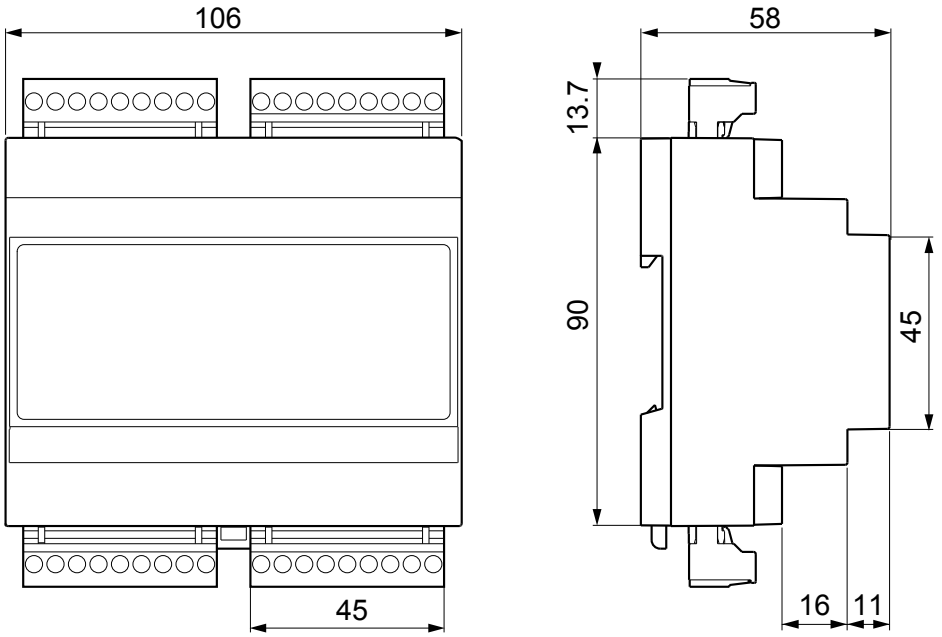
Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	USB	Web server	Code	
		•	•	•	•	•		DGT4X	
	•	•	•	•	•	•		DGT4XAN	
PROFINET			•		•	•	•	DGT4XPRONET	
EtherNet/IP			•		•	•	•	DGT4XETHIP	
Modbus TCP/IP			•		•	•	•	DGT4XMODTCP	
EtherCAT			•		•	•		DGT4XETHCAT	
Profibus			•		•	•		DGT4XPB	
DeviceNet			•		•	•		DGT4XDEVNET	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	MDR2012	

		Description	Code	
PC SOFTWARES		"XSPEED" PC software with oscilloscope function for system diagnostics and weighing filter optimization.	XSPEED	

Technical drawing (mm)



DGT4X DIGITAL | 4 CHANNELS

WITH INTEGRATED FIELDBUS & WEB SERVER

Highlights:
- load cell addressing
- quick replacement of load cells
- load cell exclusion (silo weighing)
- load balance monitoring
- digital equalization
- calibration
- all main scale functions (zero, tare, automatic zeroing, etc.).

2.600 Hz SUPER FAST | OIML APPROVED | USB PORT | WEB SERVER | JBOX MODE | UP TO 4 SCALES

Main features

Technical features						
Number of scales / channels		Up to 4				
Calibration		Electronic (Theoretical)	Real calibration with sample weights	Via Web server	From keyboard	From PC with Dinitools
Conversion rate		**Single-channel (1 scale)**		**Multi-channel (up to 4 scales)**		
		Up to 2.600 Hz		Up to 100Hz with 4 channels		
Maximum display digits		0...800.000				
Maximum load cell number		Up to 16 digital load cells				
Minimum sensitivity	**High resolution**	0,01 µV/d				
	Legal for trade	0,3 µV/e				
Legal for trade number of intervals		Up to 10.000e or multirange 3.000 + 3.000e				
Load cell excitation voltage		Digital load cells require an optional dedicated power supply unit				
Communication ports		See version table				
Communication protocols		Modbus RTU, ASCII or fieldbus				
Web server		See version table				
Communication rate		**Via serial port**		**Via Fieldbus**		
		Up to 1.300 Hz		Up to 120 Hz		
Configuration PC utility		DiniTools				
Display		Red LED 14,2 mm, 6 characters				
Keyboard		Mechanical, 5 keys				
Case		ABS, for DIN rail (106 x 56 x 118 mm)				
Power supply		12÷24 Vdc				
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**		
		-20 °C / +60 °C	-10 °C / +40 °C	85 % without condensation		

Approvals	Type	Description
UL Listed	Electric	Upon request
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
Australian approval	Metrological	NAWI - Weight transmitter
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac 60 Vdc*	*500 mA*
Opto-isolated as standard	*Yes*	

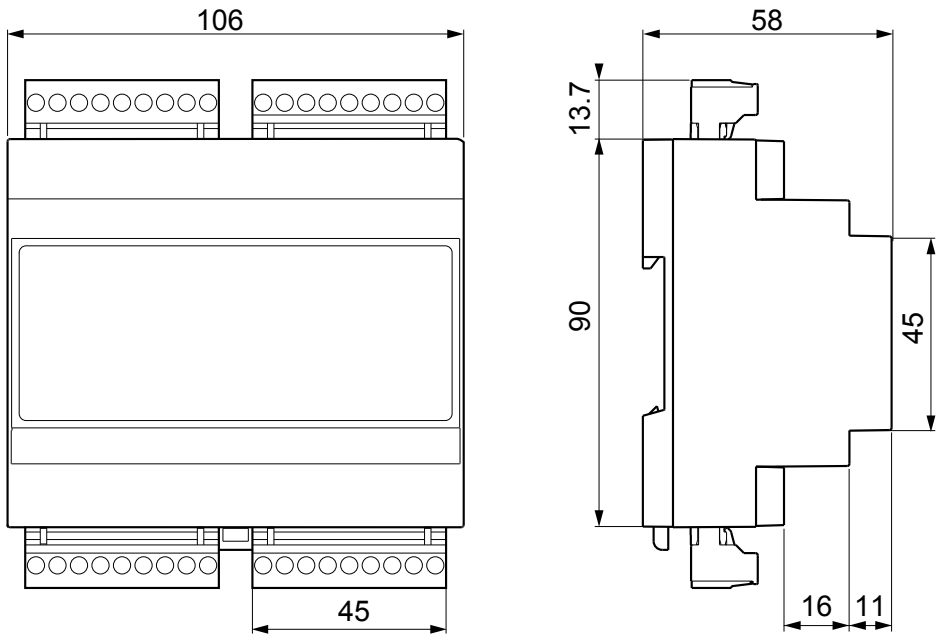
Version codes

Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	USB	Web server	Code	
		•	•	•	•	•		DGT4XDL	
	•	•	•	•	•	•		DGT4XDLAN	
PROFINET			•		•	•	•	DGT4XDLPRONET	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	MDR2012	

Technical drawing (mm)



XSPEED TOOL | TOOL FOR FILTER CONFIGURATION

XSPEED TOOL

Main features

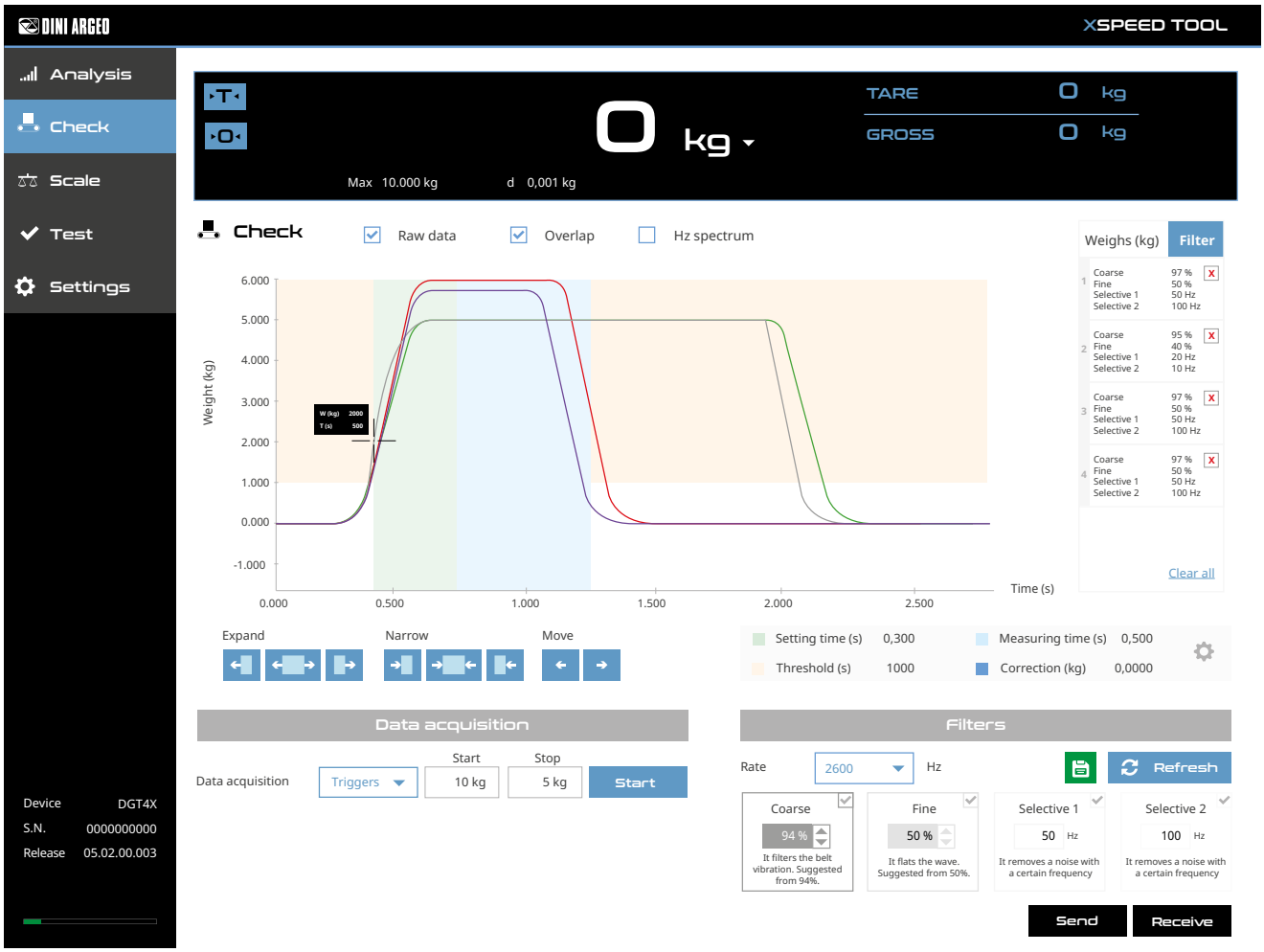
Technical features
Time and frequency domain signal analysis.
Data reception at very high speed (up to 4.800 readings per second).
Automatic data acquisition based on time or weight thresholds.
Real time signal processing.
Application of filters of your choice, fully configurable, to remove vibrations, oscillations, peaks etc., making the weight stable and the scale reactive and performing.
Calibration of the instrument, which includes: - Calibration using sample weights, with the possibility to linearize the system up to 8 points. - Theoretical calibration, with the insertion of the data of the system to be created (load cells, dead load etc.).
Archive of weights and configured filters.

Filters
Coarse filter for the removal of signal background noise and weight stabilization.
Fine filter to increase the reading accuracy.
Selective filter to isolate and eliminate noise with precise frequencies.

Minimum requirements
Operating System: Windows 10
Processor: 1.6 Ghz
Ram: 4 Gb
Free hard disk space: 250 Mb

Version codes

		Description	Code	
PC SOFTWARES	XS	"XSPEED" PC software with oscilloscope function for system diagnostics and weighing filter optimization.	**XSPEED**	



SAFETY & CONTROL
WEIGHT TRANSMITTERS

“These transmitters are the most convenient and cost-effective solution to create weight control and monitoring applications in industrial processes.

They are used to weigh silos, hoppers, roller conveyors and low-speed belts.”

DINI ARGEO

SAFETY & CONTROL
WEIGHT TRANSMITTERS

Comparative table

		DGT1S PLUS	DGT1S	DGT1	DGT4	DGT1P	DGTP	DGTQ	DGT20	DGT20I
Mounting type		**DIN Rail**				**Panel**			**Wall / Table**	
Case		ABS	ABS	ABS	ABS	Aluminium	ABS	ABS	Stainless/ Painted steel	Stainless steel
Number of scales / channels		1	1	1	Up to 4	1	1	1	1	1
Conversion rate		Up to **400 Hz**	Up to **400 Hz**	Up to **400 Hz**	Up to **400 Hz**	Up to **400 Hz**	Up to **400 Hz**	Up to **400 Hz**	Up to **400 Hz**	Up to **400 Hz**
Web server		•			•				•	
Integrated fieldbus		•			•		•	•	•	•
Modbus RTU		•	•	•	•	•	•	•	•	•
RS485		•	•	•	•	•	•	•	•	•
RS232		•	•	•	•		•	•	•	•
Digital I/O		•	•	•	•	•	•	•	•	•
Analog Output		•	•	•	•	•	•	•	•	•
Electric approvals	**UL Listed**	Upon request	Upon request		Upon request					
Metrological approvals	**OIML R61 MID**	•	•	•	•	•	•	•	•	•
	OIML R51	•	•	•	•	•	•	•	•	•
	OIML R76	•	•	•	•	•	•	•	•	•
	EU Type Examination certificate	•	•	•	•	•	•	•	•	•

DGT1S PLUS | 1 CHANNEL

WITH INTEGRATED FIELDBUS & WEB SERVER

LOAD CELL FAILURE ALARM | OIML APPROVED | USB PORT | WEB SERVER

Main features

Technical features				
Number of scales / channels		1		
Calibration		Electronic (Theoretical)	Real calibration with sample weights	Via Web server
Conversion rate		Up to 400 Hz		
Maximum display digits		0...800.000		
Maximum load cell number		Up to 16 x 350 Ω		
Minimum sensitivity	**High resolution**	0,01 µV/d		
	Legal for trade	0,3 µV/e		
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e		
Load cell excitation voltage		5 V		
Communication ports		See version table		
Communication protocols		Modbus RTU, ASCII or fieldbus		
Web server		Included in fieldbus version, see version table		
Communication rate		**Via serial port**	**Via Fieldbus**	
		Up to 325 Hz	Up to 16 Hz	
Configuration PC utility		DiniTools		
Display		Red LED 8 mm, 6 digits		
Keyboard		Mechanical, 5 keys		
Case		ABS		
Power supply		12÷24 Vdc, 5 W		
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
UL Listed	Electric	Upon request
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*5 ÷ 48 Vdc*	-
2 Digital outputs	*48 Vdc*	*500 mA*
Opto-isolated as standard	*Yes*	

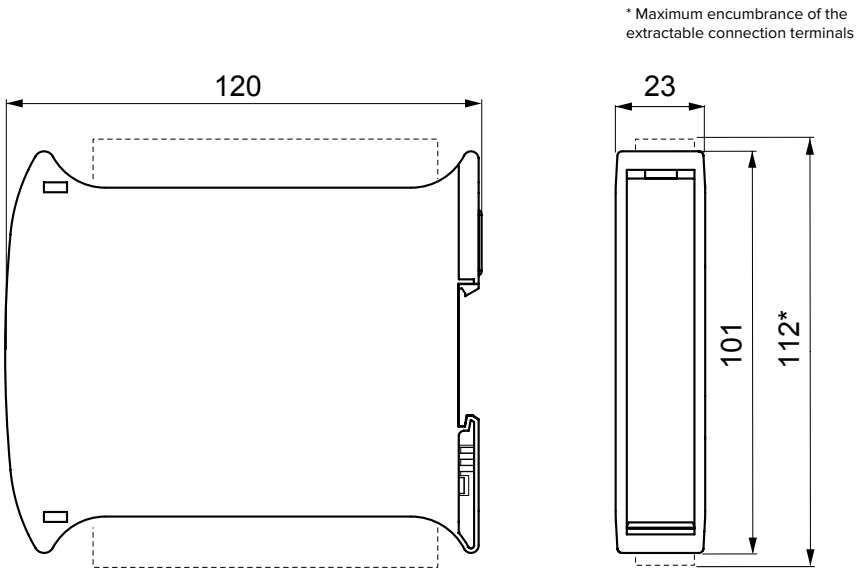
Version codes

Fieldbus	Analog output	Modbus RTU	RS485	2 IN / 2 OUT	USB	Web server	Code	
		•	•	•			DGT1SP	
	•	•	•	•			DGT1SP-AN	
PROFINET				•	•	•	DGT1SP-PRONET	
EtherNet/IP				•	•	•	DGT1SP-ETHIP	
Modbus TCP/IP				•	•	•	DGT1SP-MODTCP	
EtherCAT				•	•		DGT1SP-ETHCAT	
Profibus				•	•		DGT1SP-PB	
CANopen				•	•		DGT1SP-CANOP	
DeviceNet				•	•		DGT1SP-DEVNET	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	MDR2012	

Technical drawing (mm)



DGT1S | 1 CHANNEL

OIML APPROVED

Main features

Technical features				
Number of scales / channels		1		
Calibration		Electronic (Theoretical)	Real calibration with sample weights	Via Web server
Conversion rate		Up to 400 Hz		
Maximum display digits		0...800.000		
Maximum load cell number		Up to 8 x 350 Ω		
Minimum sensitivity	**High resolution**	0,01 µV/d		
	Legal for trade	0,3 µV/e		
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e		
Load cell excitation voltage		5 V		
Communication ports		See version table		
Communication protocols		Modbus RTU, ASCII or fieldbus		
Communication rate		**Via serial port**	**Via Fieldbus**	
		Up to 325 Hz	Up to 16 Hz	
Configuration PC utility		DiniTools		
Display		Red LED 8 mm, 6 digits		
Keyboard		Mechanical, 5 keys		
Case		ABS		
Power supply		12÷24 Vdc, 5 W		
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
UL Listed	Electric	Upon request
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac 60 Vdc*	*150 mA*
Opto-isolated as standard	*Yes*	

Version codes

Modbus RTU	RS485	RS232	2 IN / 2 OUT	Analog output	Code	
•	•	•	•		DGT1S	
•	•	•	•	•	DGT1SAN	

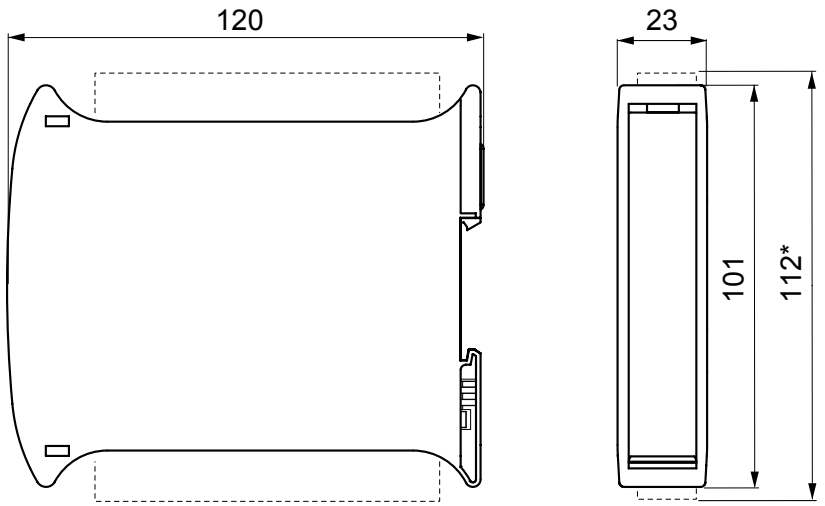
Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	MDR2012	

		Description	Code	
WIFI		Serial to WiFi compact converter for DIN rail mounting.	WIFIT1S-1	
ETHERCAT		RS485 to EtherCAT interface, for DIN rail mounting. With UL marked PCB, terminal block, plastic box and labels (if applicable).	ETHERCAT1S	
ETHERNET/IP		RS485 to Ethernet/IP interface, for DIN rail mounting. With UL marked PCB, terminal block, plastic box and labels (if applicable).	ETHERNETIP1S	
CANOPEN		RS485 to CANopen interface, for DIN rail mounting. With UL marked PCB, terminal block, plastic box and labels (if applicable).	CANOPEN1S	
DEVICENET		RS485 to DeviceNet interface, for DIN rail mounting. With UL marked PCB, terminal block, plastic box and labels (if applicable)	DEVICENET1S	
PROFIBUS		RS485 to Profibus compact interface, for DIN rail mounting. With UL marked PCB, terminal block, plastic box and labels (if applicable).	PROFIBUS1S	
PROFINET		RS485 to PROFINET interface, for DIN rail mounting. With UL marked PCB, terminal block, plastic box and labels (if applicable).	PROFINET1S	

Technical drawing (mm)

* Maximum encumbrance of the extractable connection terminals



DGT1 | 1 CHANNEL

OIML APPROVED

Main features

Technical features				
Number of scales / channels		1		
Calibration		Electronic (Theoretical)	Real calibration with sample weights	
Conversion rate		Up to 400 Hz		
Maximum display digits		0...800.000		
Maximum load cell number		Up to 8 x 350 Ω		
Minimum sensitivity	**High resolution**	0,01 µV/d		
	Legal for trade	0,3 µV/e		
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e		
Load cell excitation voltage		5 V		
Communication ports		See version table		
Communication protocols		Modbus RTU, ASCII		
Communication rate		Up to 325 Hz		
Configuration PC utility		DiniTools		
Display		Red LED 8 mm, 6 digits		
Keyboard		Waterproof mechanical, 5 keys		
Case		ABS		
Power supply		12÷24 Vdc, 5 W		
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac 60 Vdc*	*150 mA*
Opto-isolated as standard	*Yes*	

Version codes

Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	Code	
	•	•	•		**DGT1**	
	•	•	•	•	**DGT1IO**	
•	•	•	•		**DGT1AN**	

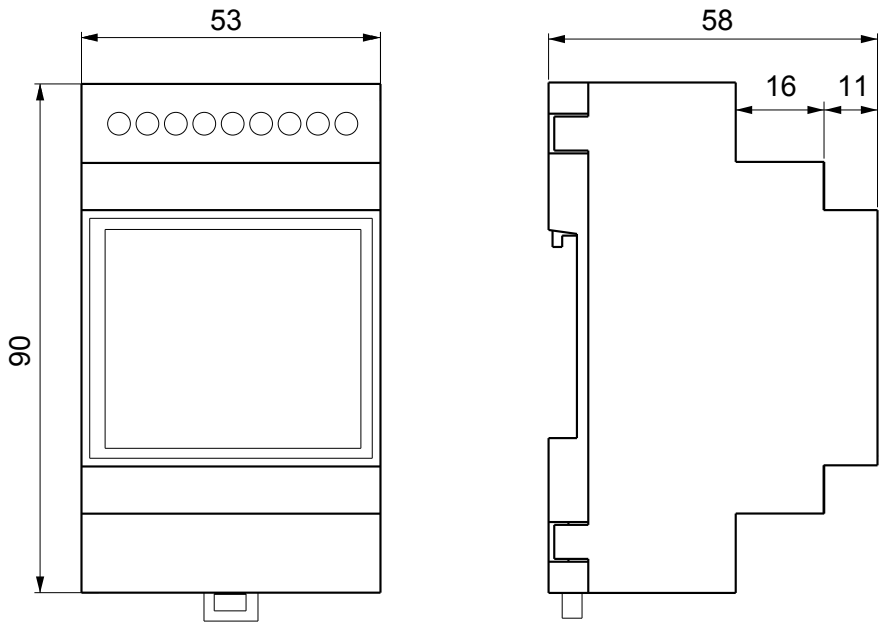
Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Type	Description	Code	
SERIAL CONVERTERS		**Modbus TCP/IP**	RS232 / RS485 to Ethernet converter.	**SETHDIN-1**	
		**Profibus DP**	RS232 / RS485 to Profibus converter.	**PROFI232-1**	

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	**MDR2012**	

		Description	Code	
INSTALLATION BOX		ABS wall IP65 box with transparent door for installation 1 DGT1 + 1 Serial converter. Dimensions 210x210x100 mm, equipped with 2 cable glands. **Not compatible with MDR2012.**	**BOX2121S**	

Technical drawing (mm)



DGT4 | 4 CHANNELS

WITH INTEGRATED FIELDBUS & WEB SERVER

OIML APPROVED

WEB SERVER

UP TO 4 SCALES

Main features

Technical features				
Number of scales / channels		Up to 4		
Calibration		Electronic (Theoretical)	Real calibration with sample weights	Via Web server
Conversion rate		Up to 400 Hz		
Maximum display digits		0...800.000		
Maximum load cell number		Up to 8 x 350 Ω		
Minimum sensitivity	**High resolution**	0,01 µV/d		
	Legal for trade	0,3 µV/e		
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e		
Load cell excitation voltage		5 V		
Communication ports		See version table		
Communication protocols		Modbus RTU, ASCII or fieldbus		
Web server		Included in fieldbus version, see version table		
Communication rate		**Via serial port**	**Via Fieldbus**	
		Up to 325 Hz	Up to 16 Hz	
Configuration PC utility		DiniTools		
Display		Red LED 13 mm, 6 digits		
Keyboard		Waterproof mechanical, 5 keys		
Case		ABS		
Power supply		12÷24 Vdc, 5 W		
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
UL Listed	Electric	Upon request
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac* *60 Vdc*	*150 mA*
Opto-isolated as standard	*Yes*	

DINI ARGEO

Version codes

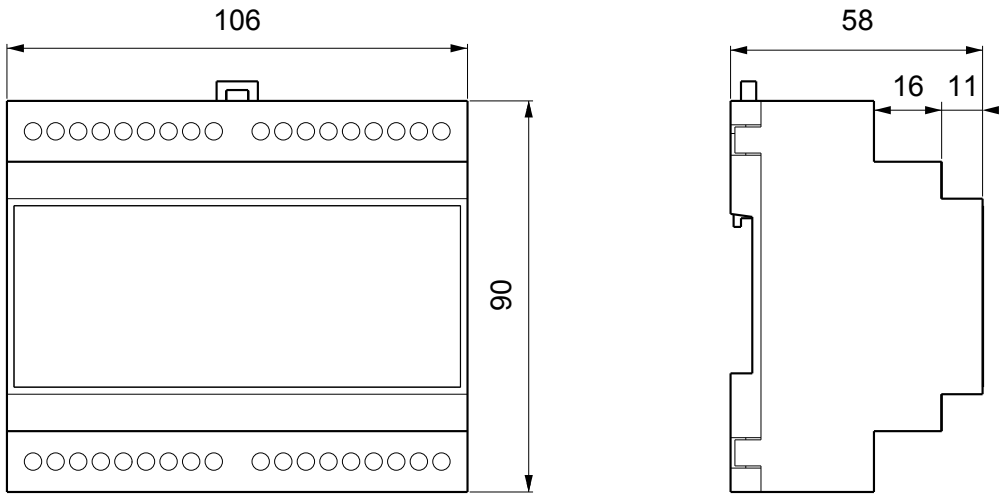
Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	Web server	Code	
		•	•	•	•		DGT4	
	•	•	•	•	•		DGT4AN	
PROFINET				•	•	•	DGT4PRONET	
EtherNet/IP				•	•	•	DGT4ETHIP	
Modbus TCP/IP				•	•	•	DGT4MODTCP	
EtherCAT				•	•		DGT4ETHCAT	
Profibus				•	•		DGT4PB-1	
DeviceNet				•	•		DGT4DEVNET	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	MDR2012	

		Description	Code	
INSTALLATION BOX		ABS wall IP65 box with transparent door for installation 1 DGT1 + 1 Serial converter. Dimensions 210x210x100 mm, equipped with 2 cable glands. **Not compatible with MDR2012.**	BOX2121S	

Technical drawing (mm)



DGT1P | 1 CHANNEL

OIML APPROVED

IP65 FRONT PROTECTION

Main features

Technical features				
Number of scales / channels		1		
Calibration		Electronic (Theoretical)	Real calibration with sample weights	
Conversion rate		Up to 400 Hz		
Maximum display digits		0...800.000		
Maximum load cell number		Up to 16 x 350 Ω		
Minimum sensitivity	**High resolution**	0,01 µV/d		
	Legal for trade	0,3 µV/e		
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e		
Load cell excitation voltage		5 V		
Communication ports		See version table		
Communication protocols		Modbus RTU, ASCII		
Communication rate		Up to 325 Hz		
Configuration PC utility		DiniTools		
Display		Red LED 14,2 mm, 6 digits		
Keyboard		Waterproof mechanical, 5 keys		
Case		Aluminium		
Power supply		12÷24 Vdc, 5 W		
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac* *60 Vdc*	*500 mA*
Opto-isolated as standard	*Yes*	

Version codes

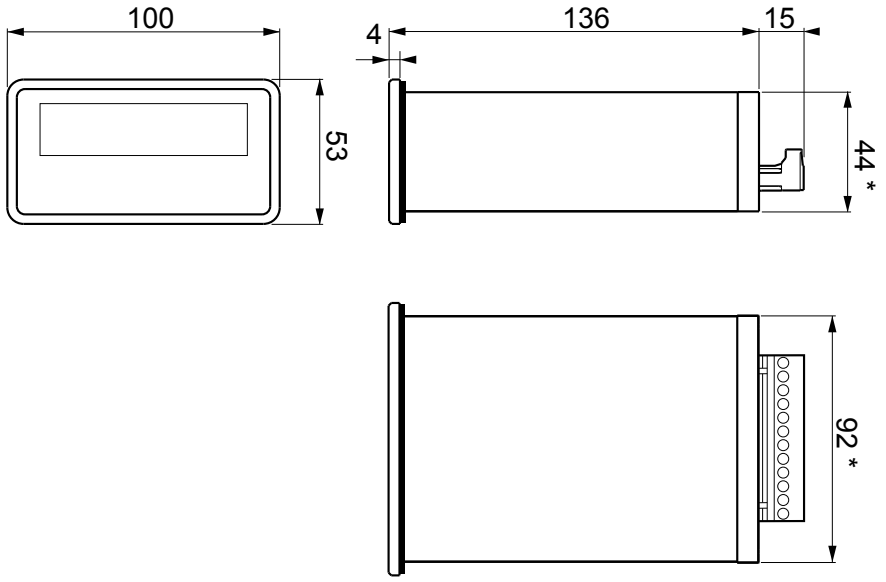
Analog output	Modbus RTU	RS485	2 IN / 2 OUT	Code	
	•	•	•	**DGT1P**	
•	•	•	•	**DGT1PAN**	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	**MDR2012**	

		Description	Code	
OUTPUT		Set of 4 optoisolated outputs (mounting and cable gland excluded).	**C4OUT**	

Technical drawing (mm)



* Panel cutout (lxh) - 92 x 44 mm

DGTP | 1 CHANNEL

WITH INTEGRATED PROFIBUS

OIML
APPROVED

Main features

Technical features			
Number of scales / channels		1 (up to 4 upon request)	
Calibration		Electronic (Theoretical)	Real calibration with sample weights
Conversion rate		Up to 400 Hz	
Maximum display digits		0...800.000	
Maximum load cell number		Up to 16 x 350 Ω	
Minimum sensitivity	**High resolution**	0,01 µV/d	
	Legal for trade	0,3 µV/e	
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e	
Load cell excitation voltage		5 V	
Communication ports		See version table	
Communication protocols		Modbus RTU, ASCII	
Communication rate		**Via serial port**	**Via Fieldbus**
		Up to 325 Hz	Up to 16 Hz
Configuration PC utility		DiniTools	
Display		Red LED 20 mm, 6 digits	
Keyboard		Waterproof mechanical, 5 keys	
Case		ABS	
Power supply		12÷24 Vdc, 5 W	
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac* *60 Vdc*	*150 mA*
Opto-isolated as standard	*Yes*	

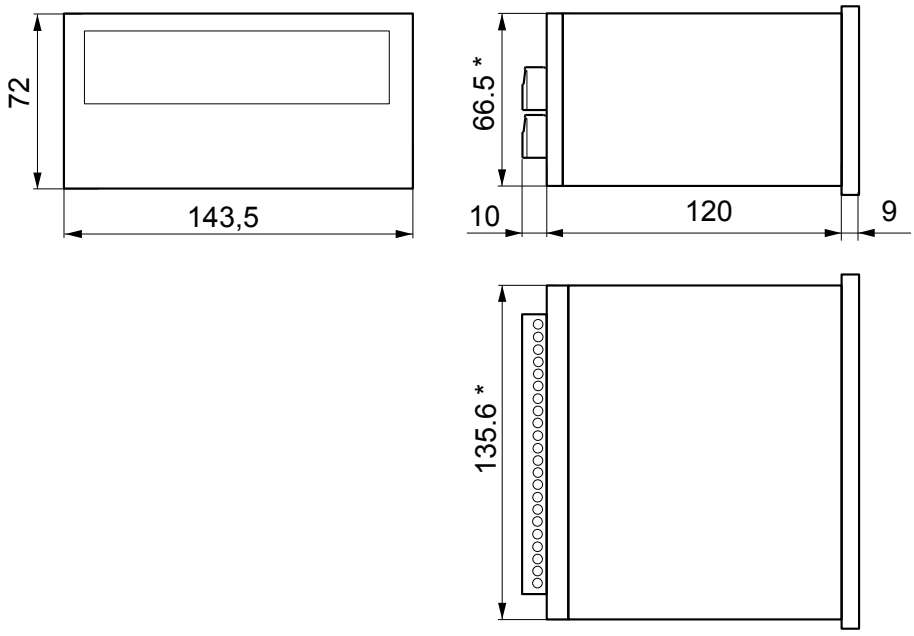
Version codes

Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	Code	
		•	•	•	•	**DGTP**	
	•	•	•	•	•	**DGTPAN**	
Profibus			•	•	•	**DGTPPB-1**	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	**MDR2012**	

Technical drawing (mm)



* Panel cutout (w x h) - 135,6 x 66,5 mm

DGTQ | 1 CHANNEL

WITH INTEGRATED PROFIBUS

OIML APPROVED

UP TO 4 SCALES

Main features

Technical features			
Number of scales / channels		1 (up to 4 upon request)	
Calibration		Electronic (Theoretical)	Real calibration with sample weights
Conversion rate		Up to 400 Hz	
Maximum display digits		0...800.000	
Maximum load cell number		Up to 8 x 350 Ω	
Minimum sensitivity	**High resolution**	0,01 µV/d	
	Legal for trade	0,3 µV/e	
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e	
Load cell excitation voltage		5 V	
Communication ports		See version table	
Communication protocols		Modbus RTU, ASCII	
Communication rate		**Via serial port**	**Via Fieldbus**
		Up to 325 Hz	Up to 16 Hz
Configuration PC utility		DiniTools	
Display		Red LED 8 mm, 6 digits	
Keyboard		Waterproof mechanical, 5 keys	
Case		ABS	
Power supply		12÷24 Vdc, 5 W	
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac 60 Vdc*	*150 mA*
Opto-isolated as standard	*Yes*	

Version codes

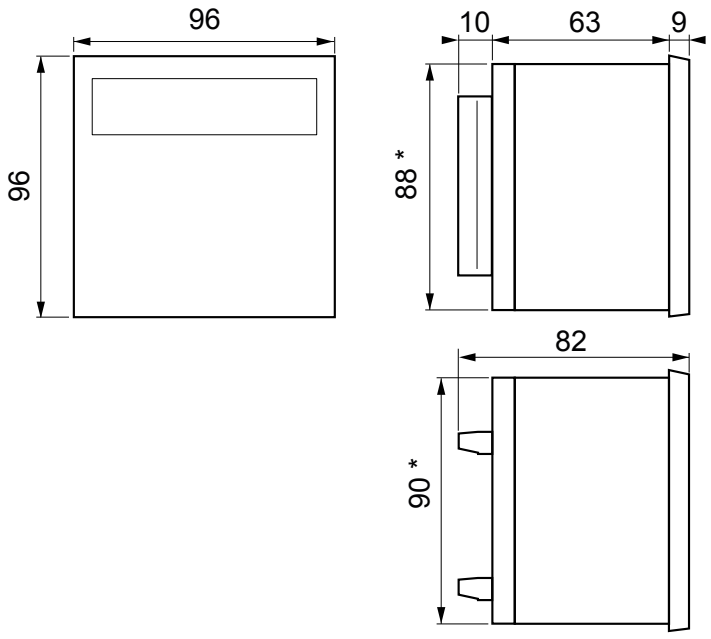
Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	Code	
		•	•	•	•	**DGTQ**	
	•	•	•	•	•	**DGTQAN**	
Profibus			•	•	•	**DGTQPB-1**	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. **Not compatible with BOX2121S.**	**MDR2012**	

		Description	Code	
OUTPUT		Set of 4 optoisolated outputs (mounting and cable gland excluded).	**C4OUT**	

Technical drawing (mm)



* Panel cutout (w x h) - 90 x 88,6 mm

DGT20 | 1 CHANNEL

WITH INTEGRATED FIELDBUS & WEB SERVER

OIML APPROVED

UNIVERSAL BRACKET

Main features

Technical features				
Number of scales / channels		1 (up to 4 upon request)		
Calibration		Electronic (Theoretical)	Real calibration with sample weights	Via Web server
Conversion rate		Up to 400 Hz		
Maximum display digits		0...800.000		
Maximum load cell number		Up to 8 x 350 Ω		
Minimum sensitivity	**High resolution**	0,01 µV/d		
	Legal for trade	0,3 µV/e		
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e		
Load cell excitation voltage		5 V		
Communication ports		See version table		
Communication protocols		Modbus RTU, ASCII or fieldbus		
Communication rate		**Via serial port**	**Via Fieldbus**	
		Up to 325 Hz	Up to 16 Hz	
Web server		Included in fieldbus version, see version table		
Configuration PC utility		DiniTools		
Display		Red LED 6 20-mm digits and 6 LEDs to show active functions		
Keyboard		Waterproof mechanical, 5 keys		
Case		Aluminium panel, stainless steel enclosure. Wall bracket included.		
Power supply		12÷24 Vdc, 5 W. Power supply unit included.		
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac 60 Vdc*	*150 mA*
Opto-isolated as standard	*Yes*	

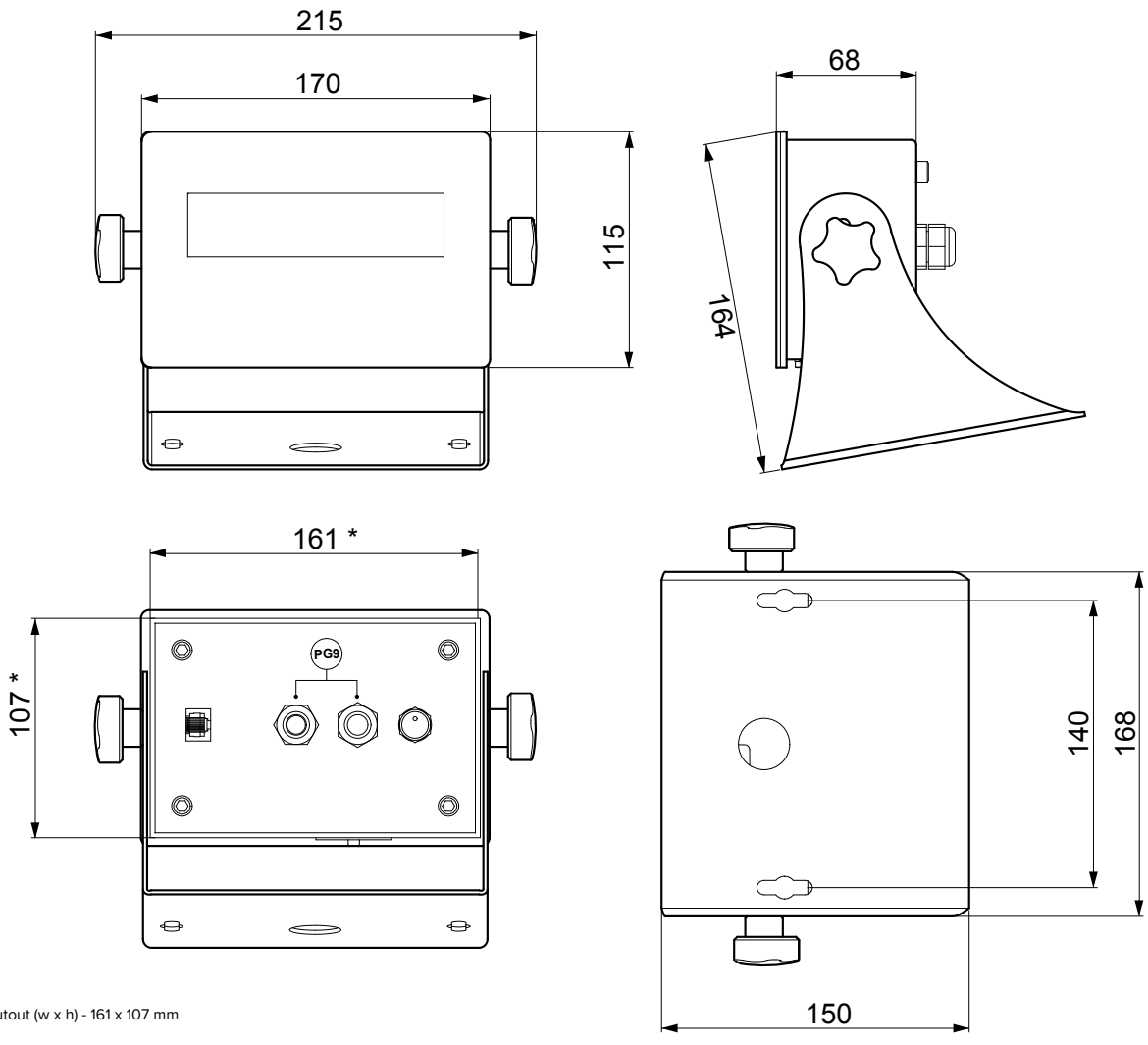
Version codes

Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	Web server	Code	
		•	•	•	•		DGT20	
	•	•	•	•	•		DGT20AN	
PROFINET				•	•	•	DGT20PRONET	
EtherNet/IP				•	•	•	DGT20ETHIP	
Modbus TCP/IP				•	•	•	DGT20MODTCP	
EtherCAT				•	•		DGT20ETHCAT	
Profibus				•	•		DGT20PB-1	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
SUPPORT BRACKETS		Kit for panel installation.	DGTSTF	

Technical drawing (mm)



* Panel cutout (w x h) - 161 x 107 mm

DGT20I | 1 CHANNEL

OIML APPROVED | IP PROTECTION | UNIVERSAL BRACKET | 230V PLUG

Main features

Technical features				
Number of scales / channels		1 (up to 4 upon request)		
Calibration		Electronic (Theoretical)	Real calibration with sample weights	
Conversion rate		Up to 400 Hz		
Maximum display digits		0...800.000		
Maximum load cell number		Up to 8 x 350 Ω		
Minimum sensitivity	**High resolution**	0,01 µV/d		
	Legal for trade	0,3 µV/e		
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e		
Load cell excitation voltage		5 V		
Communication ports		See version table		
Communication protocols		Modbus RTU, ASCII or fieldbus		
Communication rate		**Via serial port**	**Via Fieldbus**	
		Up to 325 Hz	Up to 16 Hz	
Configuration PC utility		DiniTools		
Display		Red LED 6 20-mm digits and 6 LEDs to show the active functions		
Keyboard		Waterproof mechanical, 5 keys		
IP protection rating		IP68		
Case		Full stainless steel AISI 304 enclosure. Wall bracket included.		
Power supply		12÷24 Vdc, 5 W. Power supply unit included.		
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
2014/30/EU EMC	Electric	EN 61000-6-2 : 2005
		EN 61000-6-4 : 2007+A1 : 2011
		EN 61326-1 : 2013 EN 61326-1 : 2013
		EN 55011 : 2009+A1 : 2010 EN 55011 : 2009+A1 : 2010
2014/35/EU LVD	Electric	EN 61010-1 : 2010
2011/65/EU (RoHS)	Electric	EN 50581 : 2012
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 0÷20 mA, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac* *60 Vdc*	*150 mA*
Opto-isolated as standard	*Yes*	

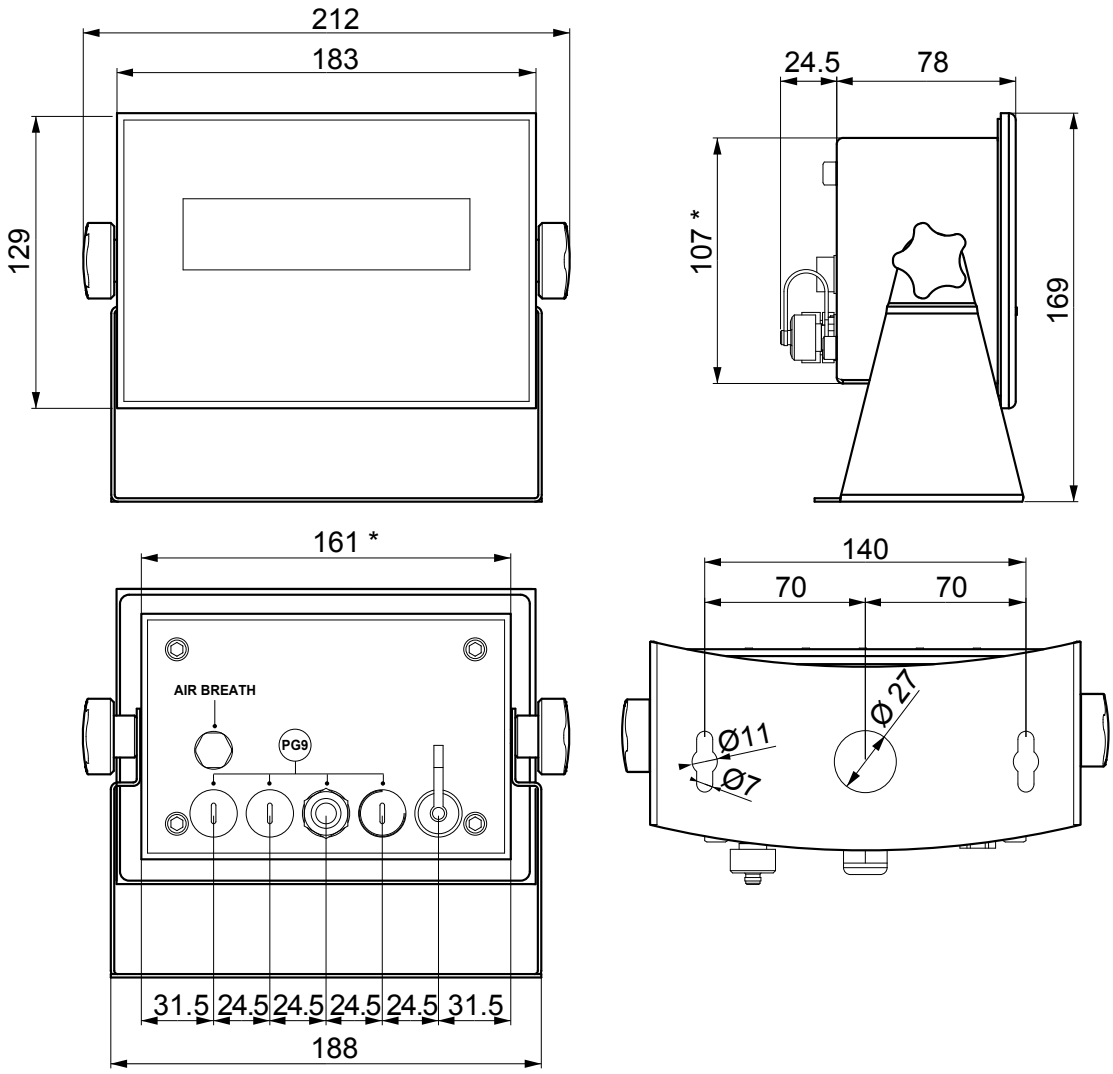
Version codes

Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	230V Plug	Code	
	•	•	•	•		DGT20I-1	
	•	•	•	•	•	DGT20IPW	
•	•	•	•	•		DGT20IAN-1	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Description	Code	
SUPPORT BRACKETS		Kit for panel installation.	DGT20ISTF	

Technical drawing (mm)



* Panel cutout (w x h) - 161 x 107 mm

DGT100 | 1 CHANNEL

Highlights:
- indicator / weight repeater with large display
- super-bright, high-intensity LEDs
- housing completely made of AISI 304 stainless steel with IP68 protection

OIML APPROVED | IP PROTECTION | STAINLESS STEEL AISI 304

Main features

Technical features				
Number of scales / channels		4		
Calibration		Electronic (Theoretical)	Real calibration with sample weights	
Conversion rate		Up to 400 Hz		
Maximum display digits		0...800.000		
Maximum load cell number		Up to 8 x 350 Ω		
Minimum sensitivity	**High resolution**	0,01 µV/d		
	Legal for trade	0,3 µV/e		
Legal for trade number of intervals		Up to 10.000e or multirange 2 x 3.000e		
Load cell excitation voltage		5 V		
Communication ports		See version table		
Communication protocols		Modbus RTU, ASCII		
Communication rate		Up to 325 Hz		
Configuration PC utility		DiniTools		
Display		Red LED 100 mm, 6 characters		
Keyboard		Waterproof mechanical, 5 keys		
Case		Stainless steel AISI 304		
Power supply		1110-240 Vac		
Operating temperature range		**Internal Use**	**OIML approved**	**Humidity**
		-20 °C / +60 °C	-10 °C / +40 °C	85 %

Approvals	Type	Description
OIML R61 - MID	Metrological	AWI - Automatic filling machine
OIML R51 - MID	Metrological	AWI - Checkweighers
OIML R76	Metrological	NAWI - Weight transmitter
EU Type Examination Certificate (2014/31/EU)	Metrological	NAWI - Weight transmitter
NMI S788	Metrological	Australian legal for trade certificate of approval

Analog output	
Settings	*0÷5 Vdc, 0÷10 Vdc, 4÷20 mA*
Resolution	*16 bit*
Communication rate	*0,1 s*
Opto-isolated as standard	*Yes*

Digital inputs / outputs	*V*	*I*
2 Digital inputs	*12÷24 Vdc*	*5÷20 mA*
2 Digital outputs	*48 Vac 60 Vdc*	*150 mA*
Opto-isolated as standard	*Yes*	

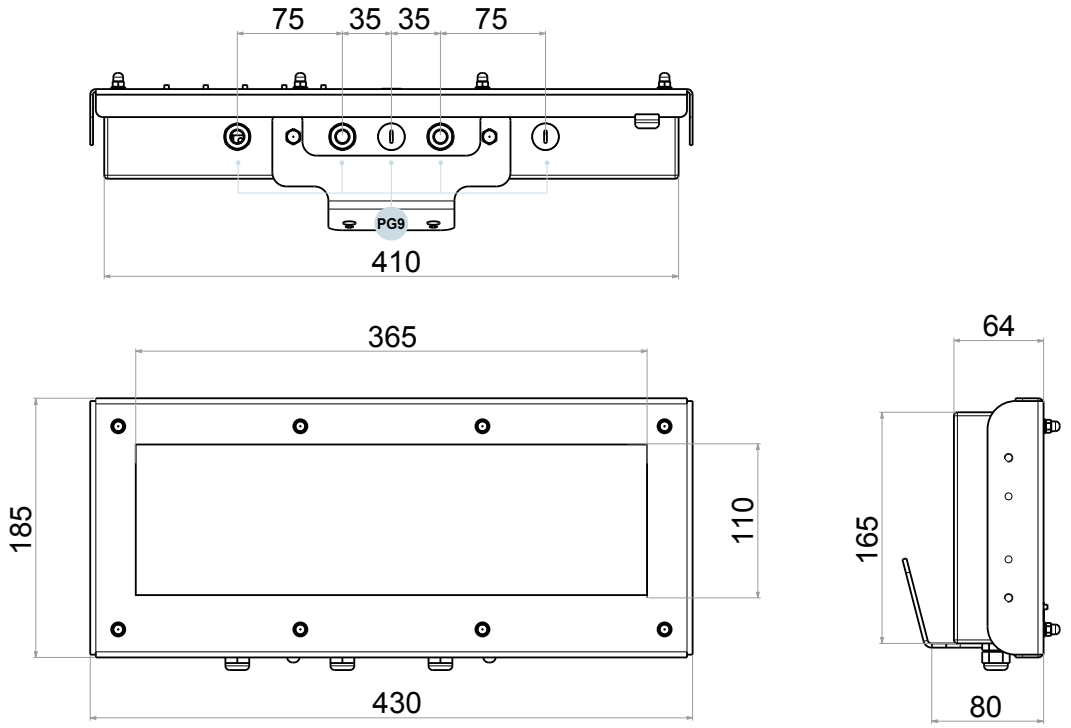
Version codes

Analog output	Profibus	Modbus RTU	RS485	RS232	2 IN / 2 OUT	Code	
		•	•	•	•	DGT100BC-1	
•		•	•	•	•	DGT100AN-1	
	•	•	•	•	•	DGT100PB-1	
			•	•	•	DGT100R-1	

Main options and accessories *(for a complete list visit www.diniargeo.com)*

		Type	Description	Code	
SERIAL CONVERTERS		**Modbus TCP/IP**	RS232 / RS485 to Ethernet converter.	**SETHDIN-1**	

Technical drawing (mm)



Notes

	Conversion rate (Hz)	N. of scales/ channels	Digital load cells	INTERFACES AND PROTOCOLS: Analog output	RS485 Modbus RTU	PROFINET	PROFIBUS	EtherNet/IP	Modbus TCP/IP	EtherCAT	CANopen	DeviceNet	Inputs / triggers	Outputs/ setpoint	DINI ARGEO	
p. 90	4800	1		●	●	●	○	●	●	●	○	○	2	4	 for DIN rail	DGT1SX
p. 92	4800	1			●								2	4	 for DIN rail	DGT1SX CHECK
p. 94	2600	Up to 4		●	●	●	●	●	●	●	●	●	2	2	 for DIN rail	DGT4X
p. 96	2600	Up to 4	●	●	●	●							2	2	 for DIN rail	DGT4X DIGITAL
p. 102	400	Up to 1		●	●	●	○	●	●	●	○	○	2	4	 for DIN rail	DGT1S PLUS
p. 104	400	1		●	●	○	○	○	○	○	○	○	2	2	 for DIN rail	DGT1S
p. 106	400	1		●	●		○						2	2	 for DIN rail	DGT1
p. 108	400	Up to 4		●	●	●	●	●	●	●	○	○	2	2	 for DIN rail	DGT4
p. 110	400			●	●								2	6	 panel mounting	DGT1P
p. 112	400	1		●	●		●						2	6	 panel mounting	DGTP
p. 114	400	1		●	●		●						2	6	 panel mounting	DGTQ
p. 116	400	1		●	●	●							2	2	 for bench/wall	DGT20
p. 118	400	1		●	●		●						2	2	 for bench/wall	DGT20I
p. 120	400	4		●	●								2	2		DGT100

● As standard ○ Special version, ask for estimate

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Australia

SALES SERVICE AND TECHNICAL ASSISTANCE

LCELL-CEN
Rev.01/01/2025