



**LOAD CELLS
& WEIGHT TRANSMITTERS**

CATALOGUE 2021

	Capacity (kg)	Max load surface (mm)	Stainless Steel	ATEX	IP68	IP69K	Digital	Accuracy	Code		
	3 ... 40	300 x 300		●				C3	SPO	p. 6	OFF-CENTER
	10 ... 200	600 x 600		●				C3	SPG	p. 7	
	7 ... 36	450 x 450		●				C6	SPG C6	p. 8	
	100 ... 500	600 x 600		●				C3	SPM	p. 9	
	100 ... 630	700 x 700		●				C3	SPBC	p. 10	
	300 ... 750	800 x 800		●				C3	SPN	p. 11	
	7,5 ... 200	500 x 400	●		●	●		C3	SPSW	p. 12	
	50 ... 100	500 x 400	●	●				C3	SPSY	p. 13	
	100 ... 500	600 x 800	●					C3	SPSX	p. 14	
	500 ... 1000	800 x 800	●	●	●			C3	SPSZ	p. 15	
	10 ... 500		●	●	●			C3	FXC	p. 16	BENDING BEAM
	20 ... 200		●		●			C6	FXC C6	p. 18	
	10 ... 500		●	●	●			C3	FXD	p. 20	
	MOUNTING KITS									p. 22	
	500 ... 2000			●				C3	SBT	p. 26	SHEAR BEAM
	500 ... 10 t		●	●	●			C3	SBX	p. 28	
	500 ... 2000		●	●	●			C6	SBK C6	p. 30	
	MOUNTING KITS									p. 32	
	25 t ... 40 t			●	●			C3	RSBT	p. 38	DOUBLE SHEAR BEAM
	10 t ... 30 t		●	●	●			C4	DSBI	p. 39	
	MOUNTING KITS									p. 40	
	2000 ... 10 t		●		●			C3	STU 1K	p. 42	TENSION
	2000 ... 10 t			●				C3	STFC	p. 44	
	15 ... 1000							C3	SL	p. 46	
	250 ... 100 t		●	●	●			C3	CPX	p. 48	COMPRESSION
	150 ... 500 t		●	●	●			C3	CPA	p. 50	
	MOUNTING KITS									p. 52	
	30 t		●	●	●			C4	RCA	p. 60	COLUMN
	20 t ... 50 t		●			●		C6	RL5426	p. 61	
	20 t ... 50 t		●			●		C4	RL5416	p. 62	
	20 t ... 50 t		●	●	●			C3	RCPT	p. 63	
	30 t ... 50 t		●		●		●	C4	RCD	p. 64	
	30 t ... 40 t		●		●		●	C6	RL5426DC	p. 65	
	30 t ... 40 t		●		●		●	C4	RL5416DC	p. 66	
	30 t		●		●		●	C4	RCPTD	p. 67	
	MOUNTING KITS									p. 68	
	FULLY CUSTOMIZED									p. 70	LOAD PINS
JUNCTION BOXES										p. 72	OTHER
ZENER BARRIERS										p. 74	
CABLES										p. 75	

INTERFACES AND PROTOCOLS



	Conversion rate (Hz)	N. of scales/channels	Digital load cells	Analog output	RS485 Modbus RTU	PROFINET	PROFIBUS	EtherNet/IP	Modbus TCP	EtherCAT	CANopen	DeviceNet	Inputs / triggers	Outputs / setpoint		
p. 80	4800	1		•	•	•	•	•	•	•	•	•	2	4		DGT15X for DIN rail
p. 82	2600	Up to 4	•	•	•	•	•	•	•	•	•	•	2	2		DGT4X for DIN rail
p. 84	2600	Up to 4			•											DGX4SP
p. 90	400	Up to 4		•	•	•	•	•	•	•	•	•	2	4		DGT15 PLUS for DIN rail
p. 92	400	1		•	•	○	○	○	○	○	○	○	2	2		DGT15 for DIN rail
p. 94	400	1		•	•			○					2	2		DGT1 for DIN rail
p. 96	400	1		•	•	•	•	•	•	•	○	○	2	2		DGT4 for DIN rail
p. 98	400	1		•	•								2	6		DGT1P panel mounting
p. 100	400	1		•	•	•							2	6		DGT1P panel mounting
p. 102	400	1		•	•	•							2	6		DGTQ panel mounting
p. 104	400	1		•	•	•	•	•	•	•	○	○	2	2		DGT20 for bench/wall
p. 106	400	1		•	•	•							2	2		DGT201 for bench/wall



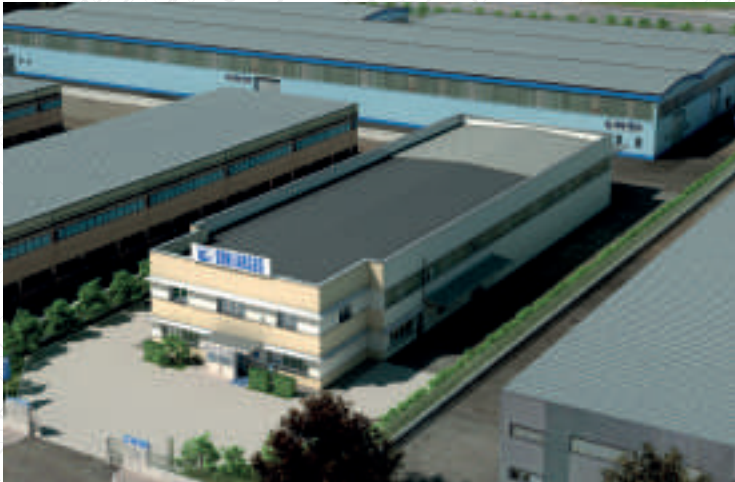
A RICE LAKE WEIGHING SYSTEMS COMPANY



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.

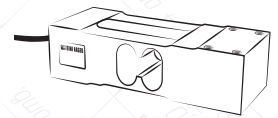


OFF-CENTER



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).

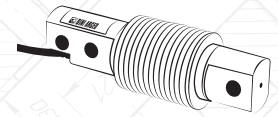


BENDING BEAM



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 and check-weighers. Ideal for systems with multiple load cells.

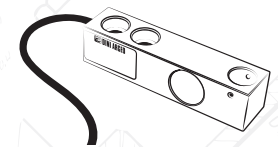


SHEAR BEAM



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.

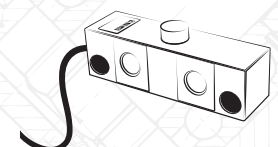


DOUBLE SHEAR BEAM



Dini Argeo Double Shear Beam load cells have the same features as Shear beam load cells but with much higher load capacities.

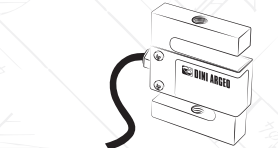
They find application in large capacity silo weighing and are the best choice for the construction of weighbridges. Ideal for systems with multiple load cells.



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



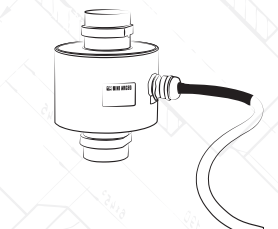
Dini Argeo Compression load cells are the best solution to weigh medium and large capacity silos, hoppers and tanks. The particular compact shape that characterises them is designed to weigh without mechanical bending, making them very robust and resistant even to extreme stress. Dini Argeo mounting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



COLUMN

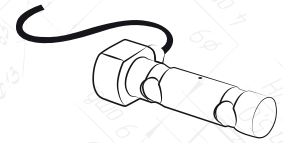


Dini Argeo Column load cells are ideal for the construction of weighbridges and large capacity silos weighing. Their shape allows the load to oscillate within the set limits and always return to its original position for optimum weighing. This feature is indispensable in the manufacture of state-of-the-art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



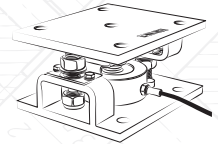
LOAD PINS

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.



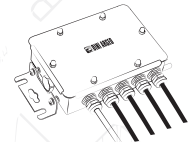
MOUNTING KITS

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

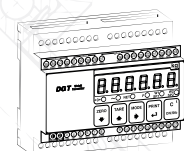
These weight transmitters are designed for use in applications where a very high sampling rate is required in order to weigh with extreme precision in fractions of a second. Ideal for belt weighing, dosing and micro-dosing, in-line filling and process control applications.



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

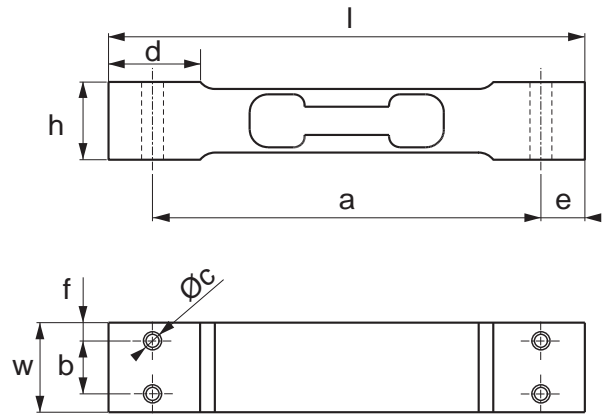


Big bags



Weight peaks

SPO | OFF-CENTER



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	150 x 150	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	

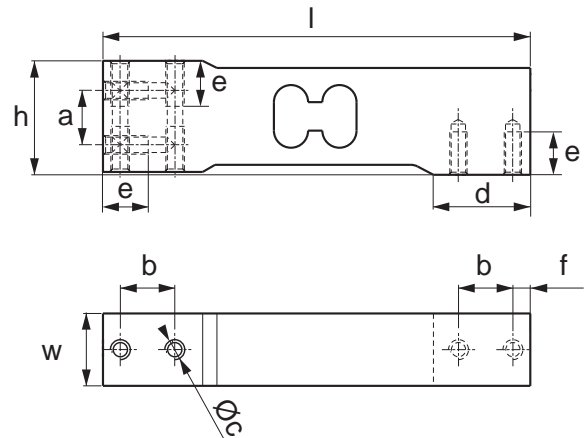
ATEX Certification

Option	Description	Code	
	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	

SPG | 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)	Code	
10	300 x 300	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	SPG10-1	
15	450 x 450	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	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	SPG50-1	
100											SPG100-1	
150											SPG150-1	
200											SPG200-1	

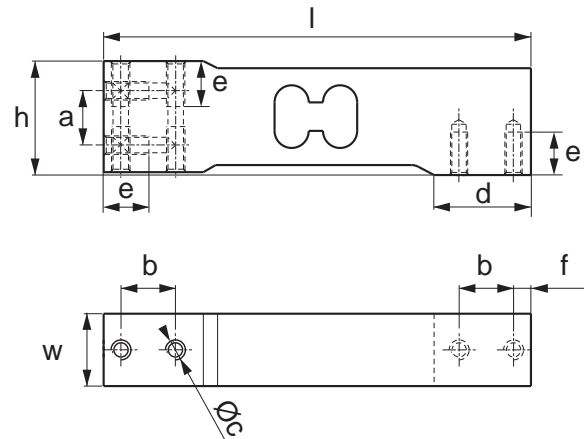
ATEX Certification

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

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	200 kg
Y value	V _{min} = E _{Max} / 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



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
7	300 x 300	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	SPG7C6-1
10											SPG10C6-1
18	400 x 400	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	SPG18C6-1
36	450 x 450	150	25,4	40	19,1	19,1	N°8 x M6	34	16	6,1	SPG36C6-1

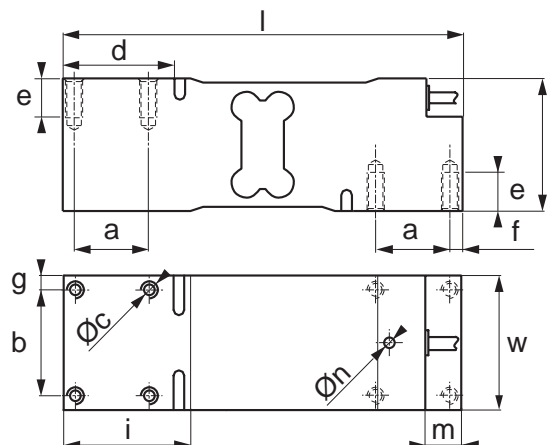
ATEX Certification

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	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	

SPM | 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 (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	SPM100
200															SPM200
500															SPM500

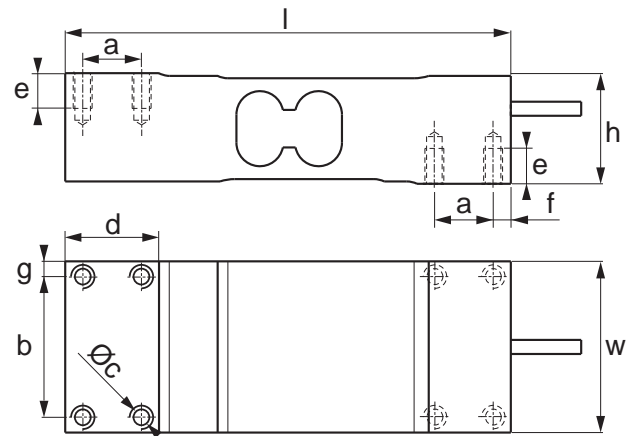
ATEX Certification

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



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
100	700 x 700	190	73	47	25	60	N°8 x M8	40	15	7,5	6,5	SPBC100
200												SPBC200
300												SPBC300
500												SPBC500
630												SPBC630

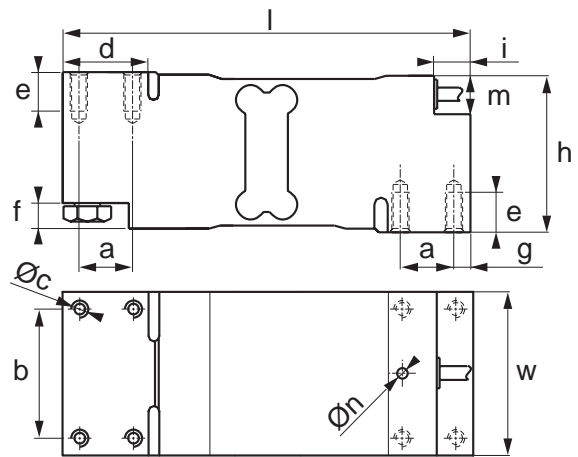
ATEX Certification

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)	Code
300	800 x 800	191	76	75	25	60	N°8 x M8	40	16	12	8	21	18	5	SPN300
500															SPN500
750															SPN750

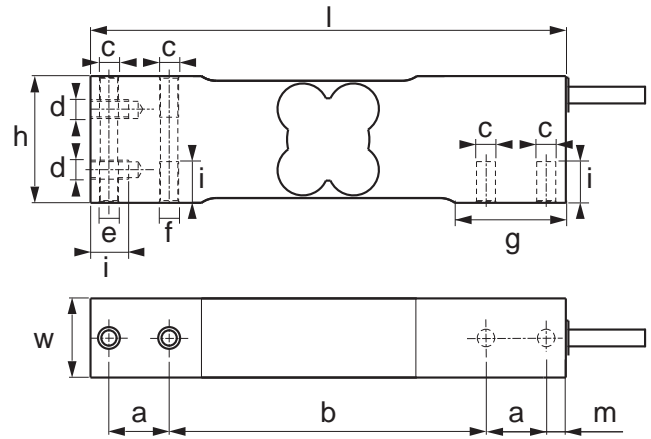
ATEX Certification

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	

SPSW | OFF-CENTER



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 (Ø 0,5 solo un filetto)	35	13	6,2	SPSW7.5
15														SPSW15
30														SPSW30
50														SPSW50
100														SPSW100
200	500 x 400	150	25	40	19	100	N°4 x M8	N°2 x M6	5,1	M6 (Ø 0,5 solo un filetto)	35	13	6,2	SPSW200

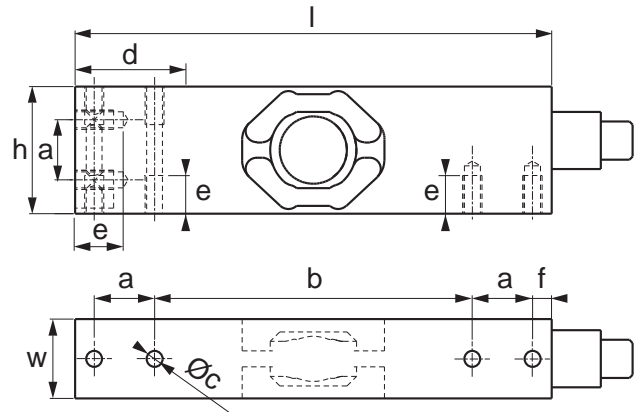
ATEX Certification

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	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	

SPSY | OFF-CENTER



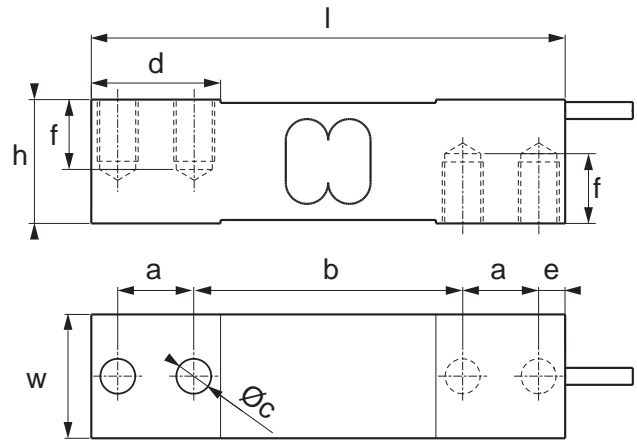
Version codes

Max (kg)	Plate Max (mm)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c Ø (mm)	d (mm)	e (mm)	f (mm)	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	From ± 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



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	600 x 800	139,7	30,5	30,2	22,4	79,3	N°4 x M10	38	7,8	15	SPSX100	
300		139,7	36,5	36,5	22,4	79,3	N°4 x M10	38	7,8	19	SPSX300	
500		139,7	36,5	36,5	22,4	79,3	N°4 x M12	38	7,8	19	SPSX500	

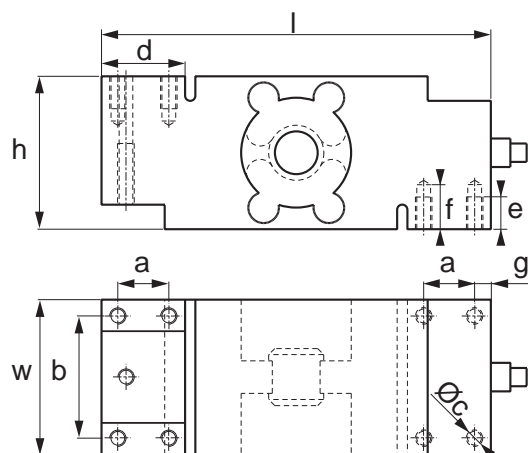
ATEX Certification

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	

SPSZ | OFF-CENTER



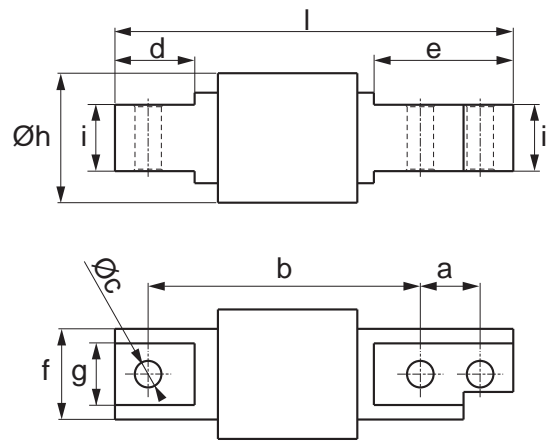
Version codes

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)	Code	
500	800 x 800	191	76	75	25	60	N°9 x M12	41	16	22	8	SPSZ500	
1.000												SPSZ1000	

Technical features

Maximum number of verification intervals	nLC = 3.000
Maximum capacity	1.000 kg
Y value	Vmin = EMax / 7.500 - 12.500
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



Version codes

Max (kg)	l (mm)	w Ø (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	39	18	82	N°3 x 8	24	42	27,3	18,5	20	FXC10-1
20												FXC20-1
50												FXC50-1
100												FXC100-1
200												FXC200-1
300												FXC300-1
500												FXC500-1



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= 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

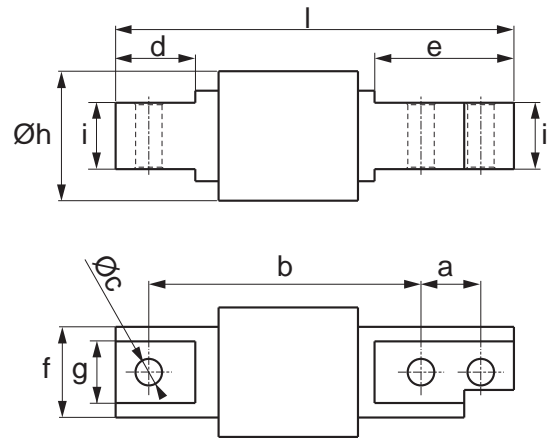
Options & accessories

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 (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	∅ 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.	∅ 9 mm (for M8 screw)	BPFX10	

FXC C6 | BENDING BEAM



Version codes

Max (kg)	l (mm)	w Ø (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	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	V _{min} = E _{Max} / 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	

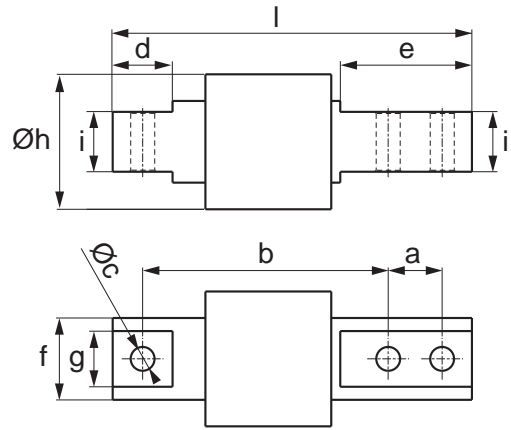
Options & accessories

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 (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	∅ 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.	∅ 9 mm (for M8 screw)	BPF10	

FXD | BENDING BEAM



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
200											FXD200
300											FXD300
500	120	45	18	82	N°3 x 8	20	44	27,3	18,6	20	FXD500



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
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

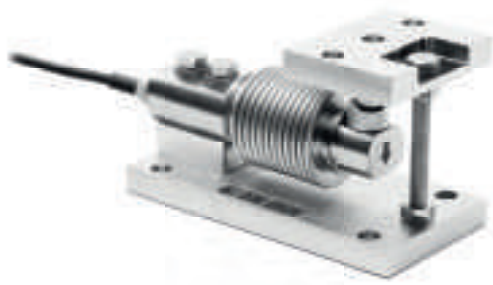
Options & accessories

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 (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	∅ 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.	∅ 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.





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	

Technical features

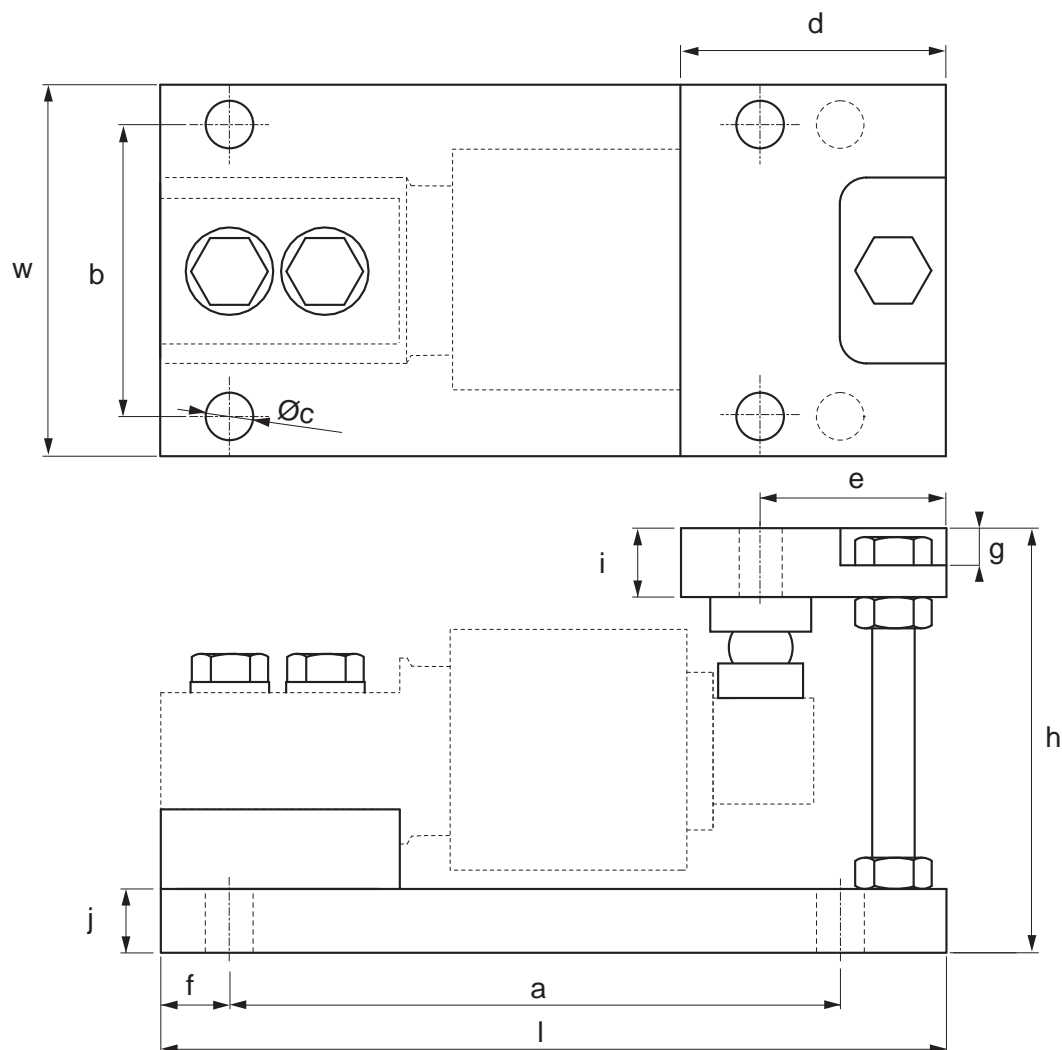
Construction in electropolished stainless steel AISI 304
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Grounding cable for protection against electrostatic discharges

Options & accessories

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



Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c \varnothing (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.



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 500 (load cell capacity)	-	-	KFXDN (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

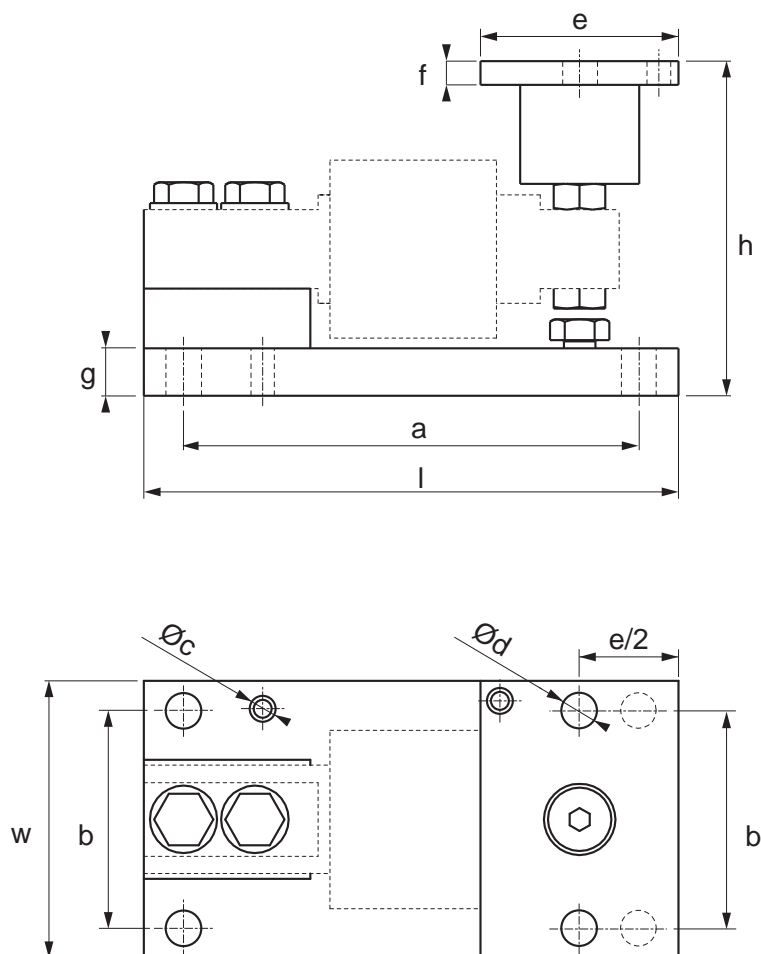
Construction in stainless steel AISI 304
Locking / bypass system for easy transport and maintenance
Upper plate with elastic joint for vibration absorption and expansion compensation
ATEX version available for zones 1&21, 2&22

Options & accessories

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	

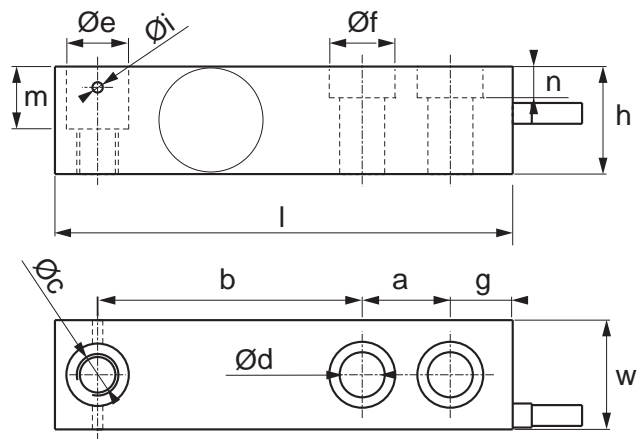
This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing



Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c \varnothing (mm)	d \varnothing (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

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
1.000														SBT1000
2.000														SBT2000





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	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



Options & accessories

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	-	-	KSNB2 (load cell not included)	
	Stainless steel	2.500 kg	10	-	KSXB2 (load cell not included)	
	Stainless steel	2.000 kg	-	-	KSB2H	

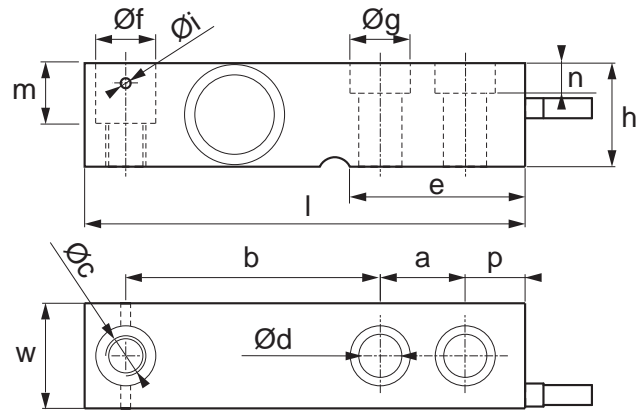
Foot	Material	Load cell compatibility	Threading	Code	
	Stainless steel	For load cells up to 2.500 kg	M12 x 43 mm	SBFI-1	
	Stainless steel	For load cells up to 2.500 kg	M12 x 45 mm	KSB2FI-1	
	Nickel-plated steel	For load cells up to 2.500 kg	M12 x 45 mm	SBFA	

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



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




Options & accessories

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	-	-	KSNB2 (load cell not included)	
	Stainless steel	2.500 kg	10	-	KS BX2 (load cell not included)	
	Stainless steel	2.000 kg	-	-	KSB2H	
	Stainless steel	3.000 / 5.000 kg	-	-	KSB5H	

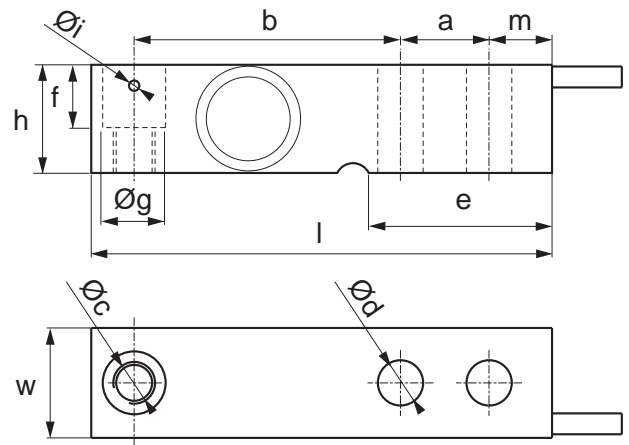
Feet	Material	Load cell compatibility	Threading	Code	
	Stainless steel	For load cells up to 2.500 kg	M12 x 43 mm	SBFI-1	
	Stainless steel	For load cells from 3.000 to 5.000 kg	M20 x 46,5 mm	SBFI3K-1	
	Stainless steel	For load cells up to 2.500 kg	M12 x 45 mm	KSB2FI-1	
	Stainless steel	For load cells 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



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	
1.000													SBK1000C6	
2.000													SBK2000C6	





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	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	



Options & accessories

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	

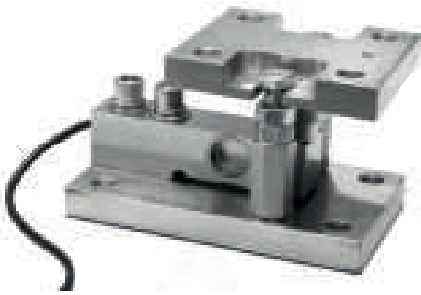
Foot	Material	Load cell compatibility	Threading	Code	
	Stainless steel	For load cells up to 2.500 kg	M12 x 43 mm	SBFI-1	
	Stainless steel	For load cells up to 2.500 kg	M12 x 45 mm	KSB2FI-1	
	Nickel-plated steel	For load cells up to 2.500 kg	M12 x 45 mm	SBFA	

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	

KSBC2 | 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 (Load cell capacity)	10	-	KSBC2 (Load cell not included)	

Technical features

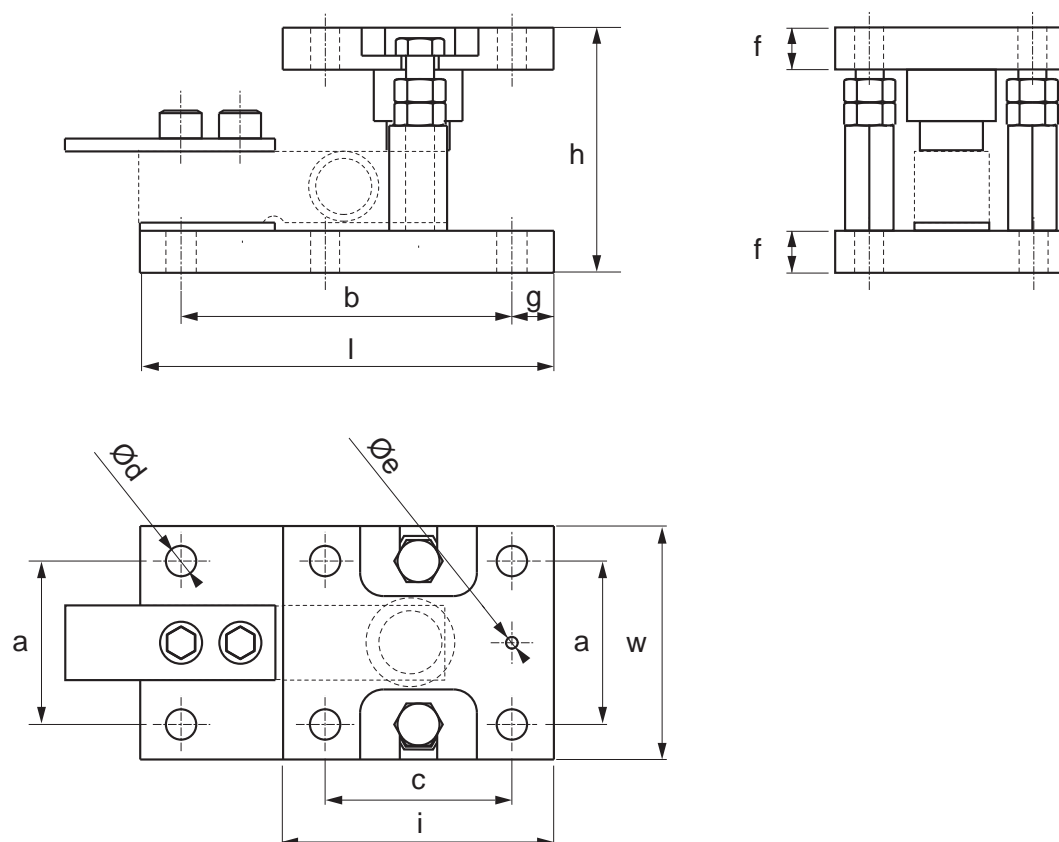
Construction in nickel-plated steel
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Higher plate with ball joint, for optimal weighing precision
Overload protection nuts

Options & accessories

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



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




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 (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

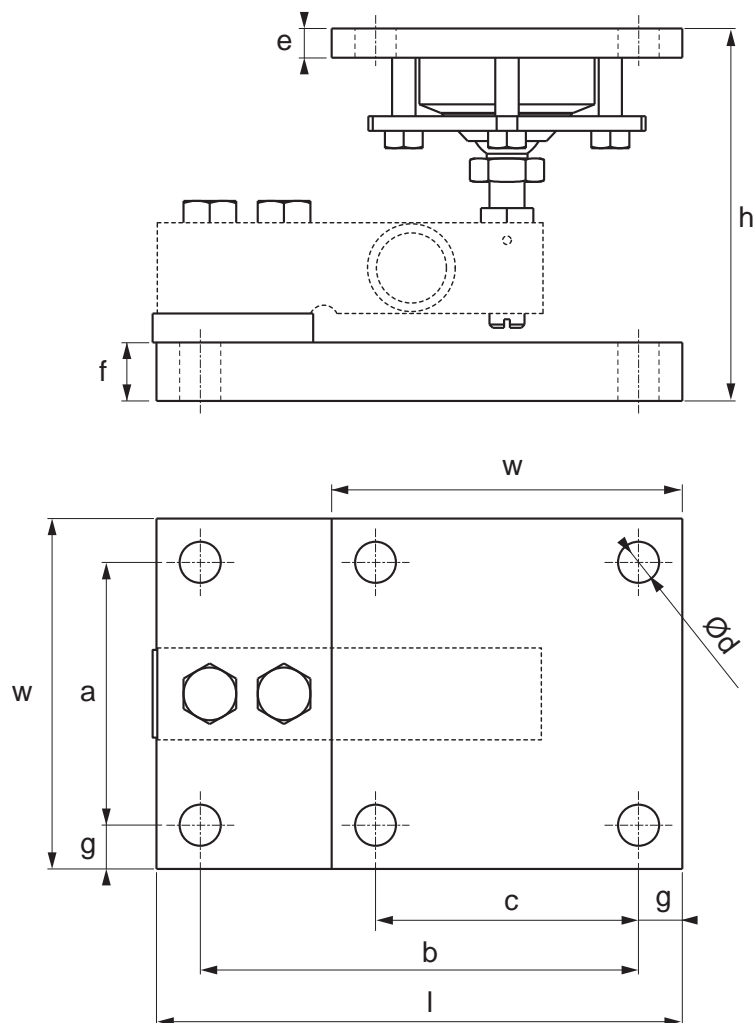
Construction in galvanised steel
Height adjustment for correct leveling
Mechanical compensation of thermal swellings and transversal forces
Upper plate with ball joint for excellent measuring accuracy
ATEX version available for zones 1&21, 2&22

Options & accessories

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



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.



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

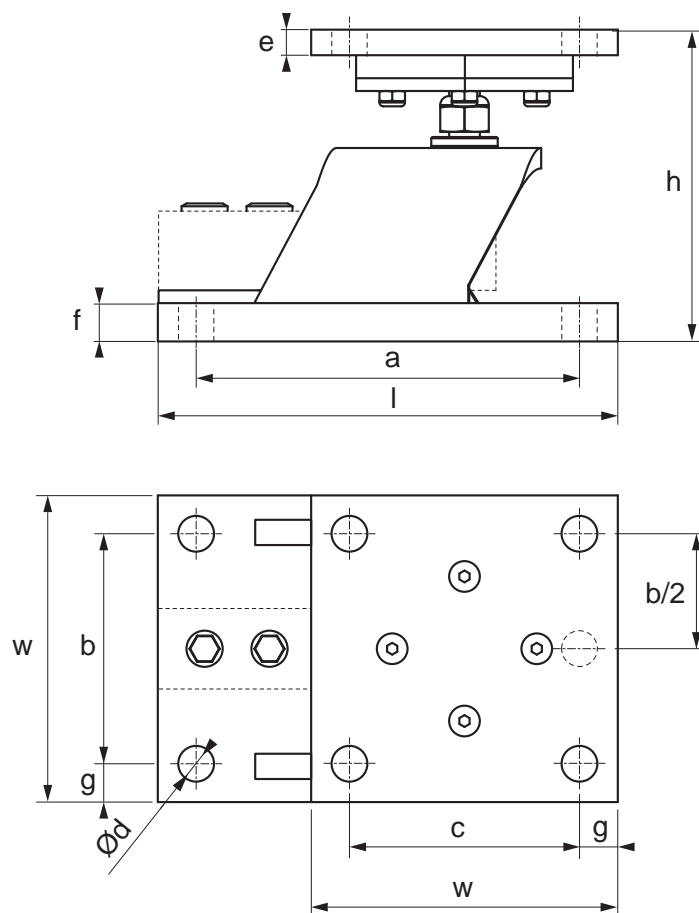
Construction in stainless steel AISI 304, with electropolished finishing, for better resistance to external agents
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nut
Higher plate with configurable system "lock, "side" or "free"
Height regulation for a 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

Options & accessories

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	

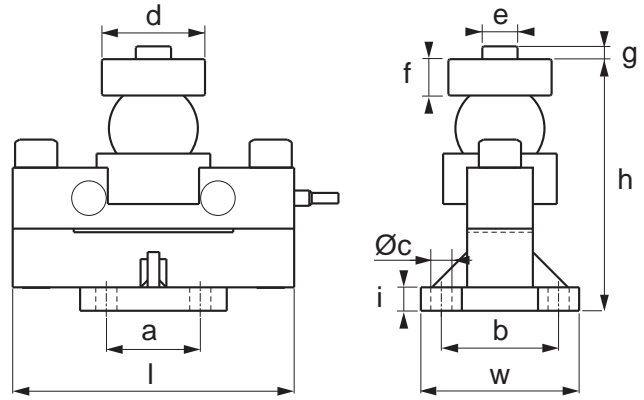
This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing



Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c (mm)	d \varnothing (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



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
	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

OFF-CENTER

BENDING BEAM

SHEAR BEAM

DOUBLE SHEAR BEAM

TENSION

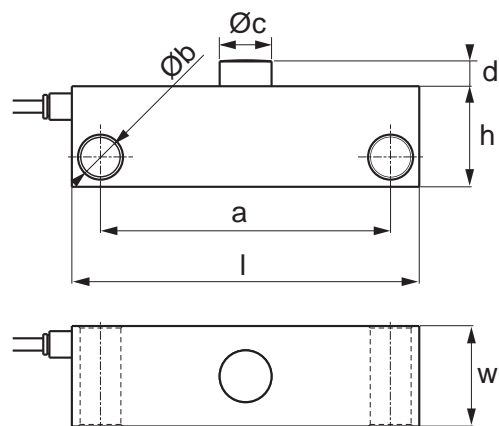
COMPRESSION

COLUMN

LOAD PINS

OTHER

DSBI | DOUBLE SHEAR BEAM



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

Options & accessories

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.



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 (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

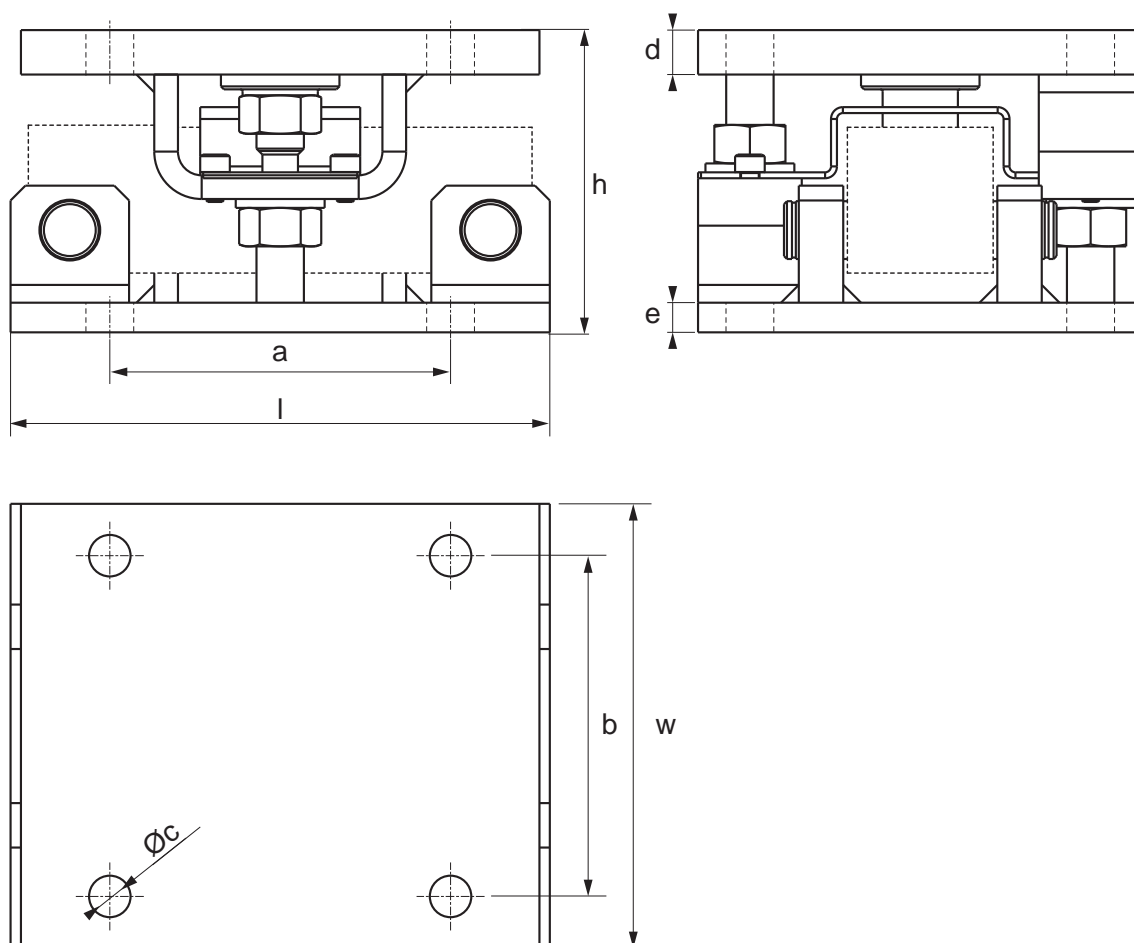
Construction in stainless steel AISI 304
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Centering plate/electrostatic bypass
Great resistance to lateral forces
Locking nuts to maintain the raised position simplify the installation and the removal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

Options & accessories

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	

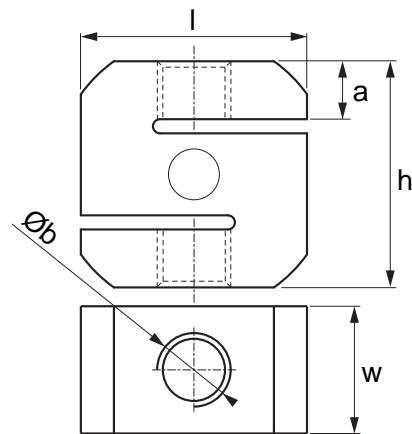
This kit is designed to allow the correct functioning of the cells and the requested weighing accuracy, within the limits described into the technical manual.

Technical drawing



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





Version codes

Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b \emptyset (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

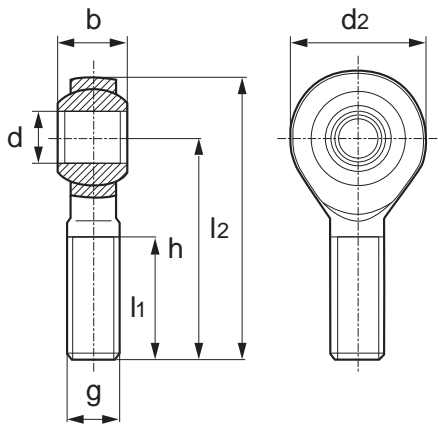
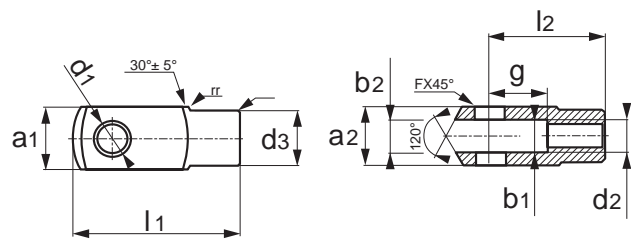
Maximum number of verification intervals	nLC = 3.000
Maximum capacity	10.000 kg
Y value	-
Nominal rated output	2 mV/V \pm 0,1 %
Temperature effect on full scale output	0,02 % F.S. / 10°C
Temperature effect on zero	0,02 % F.S. / 10°C
Hysteresis	\pm 0,03 % F.S.
Non-linearity	\pm 0,03 % F.S.
Creep at nominal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

Options & accessories

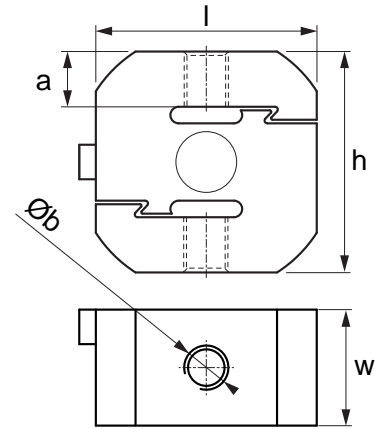
Option	Description	Threading	Code	
	M16 articulated rod-end ball joint. Maximum lifting capacity 2.000 kg.	M16	RBJM16	
	M16 clevis fitted with pin, to be combined with RBJM16.	M16	CLVM16	

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

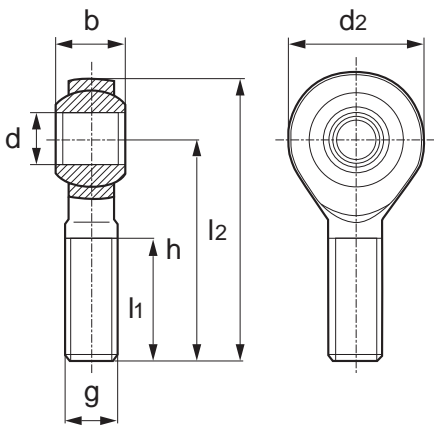
Maximum number of verification intervals	nLC = 3.000
Maximum capacity	10.000 kg
Y value	V _{min} = E _{Max} / 10.000
Nominal rated output	2 mV/V ± 0,1 %
Temperature effect on full scale output	0,02 % / °C
Temperature effect on zero	0,02 % / °C
Hysteresis	± 0,02 % F.S.
Non-linearity	± 0,02 % F.S.
Creep 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

Options & accessories

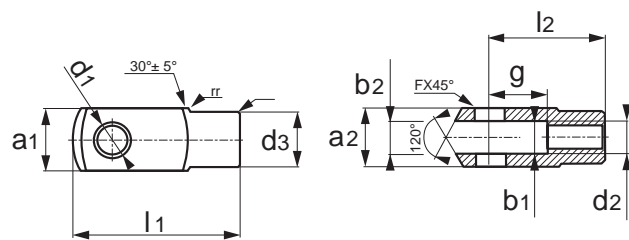
Option	Description	Threading	Code	
	M16 articulated rod-end ball joint. Maximum lifting capacity 2.000 kg.	M16	RBJM16	
	M16 clevis fitted with pin, to be combined with RBJM16.	M16	CLVM16	
	M24 articulated rod-end ball joint. Maximum lifting capacity 5.000 kg.	M24	RBJM24	
	M24 clevis fitted with pin,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

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
RBJM24	25	M24	53	64	94	126	20

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
CLVM24	25	50	50	50	25	M24	42	132	100	0,4

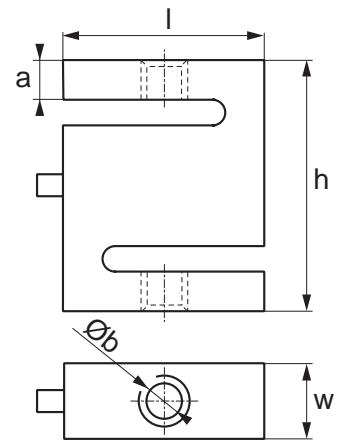


RBJ



CLV

SL | TENSION






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	51	19	76	13,5	N°2 x M12	SL300	
500						SL500	
1.000	54	25,4	76	13,5	N°2 x M12	SL1000	

Technical features

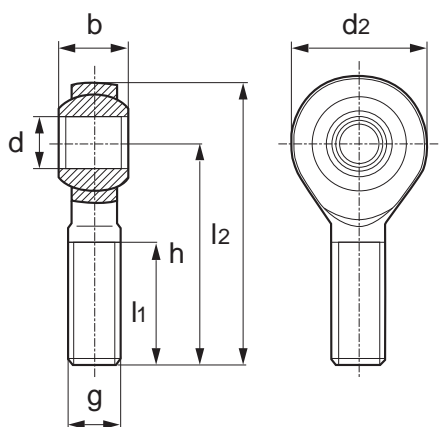
Maximum number of verification intervals	-
Maximum capacity	1.000 kg
Y value	-
Nominal rated output	2 mV/V ± 10 %
Temperature effect on full scale output	0,02 % / °C
Temperature effect on zero	0,02 % / °C
Hysteresis	0,02 % F.S.
Non-linearity	0,02 % F.S.
Creep at nominal load over 4 hours	0,03 % F.S.
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	

Options & accessories

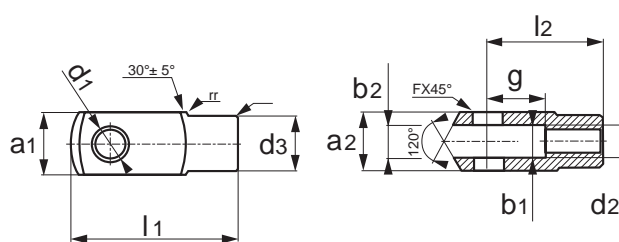
Option	Description	Threading	Code	
	M8 articulated rod-end ball joint. Maximum lifting capacity 600 kg. For load cells up to 50 kg.	M8	RBJM8	
	M8 clevis fitted with pin, to be combined with RBJM8. For load cells up to 50 kg.	M8	CLVM8	
	M12 articulated rod-end ball joint. Maximum lifting capacity 1.000 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)	l ₁ (mm) min.	d ₂ (mm)	h (mm)	l ₂ (mm)	b (mm)
RBJM8	8	M8	22	24	42	54	8
RBJM12	12	M12	28	34	54	71	10

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.
CLVM8	8	16	16	16	8	M8	14	42	32	0,4
CLVM12	12	24	24	24	12	M12	20	62	48	0,4

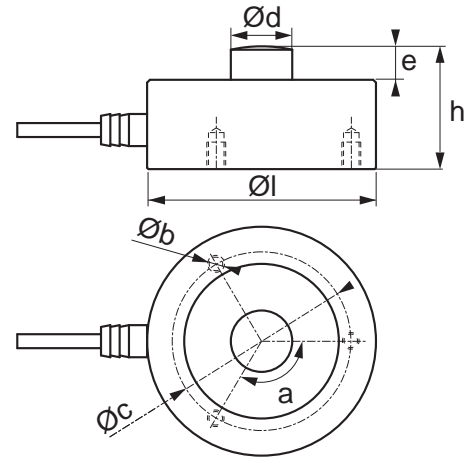


RBJ



CLV

CPX | COMPRESSION





Version codes

Max (kg)	l Ø (mm)	h (mm)	a (°)	b Ø (mm)	c Ø (mm)	d Ø (mm)	e (mm)	Code
250	82	44	120°	3 x M8	64	22	12	CPX250
500								CPX500
1.000								CPX1000
2.500								CPX2500
5.000								CPX5000
7.500								CPX7500
10.000								CPX10000
12.500								CPX12500
15.000	100	48,5	120°	3 x M10	68	28	13,5	CPX15000
30.000	126	54	120°	3 x M12	75	35	14	CPX30000
50.000	165	80	120°	3 x M16	112	60	20	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
Combined error	0,05 %
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:
	CPX 7.500 ... 100.000 kg:

ATEX certification

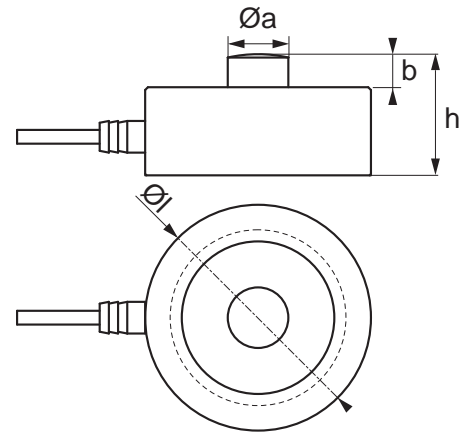
Option	Description	Code	
	Optional ATEX version (see www.diniargeo.com for additional details)	CCATEX-1	
	IP69K version for one load cell	IP69KLC	

Options & accessories

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	-	30.000 kg	130	100	KCP50 (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	

● As standard ○ Optional

CPA | COMPRESSION



Version codes

Max (kg)	I 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		
3.000					CPA3000		
5.000					CPA5000		
7.000					CPA7000		
10.000					CPA10000		
20.000					128		54
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	Ø 5 mm l = 5 / 15 m

ATEX certification

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

Options & accessories

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

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)	
	Stainless steel	-	30.000 kg	45	30	KCPN30 (Load cell not included)	
	Zinc-plated steel	-	50.000 kg	130	100	KCP50 (Load cell not included)	
	Zinc-plated steel	○	100.000 kg	400	200	KCP100H (Load cell not included)	
			Up to 1.000.000 kg	-	-	Upon request	

- As standard
- Optional

KCPNA | MOUNTING KIT



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

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	5,4	CPX - Up to 12.500 CPA - Up to 10.000	45	25	KCPN10A (Load cell not included)	

Technical features

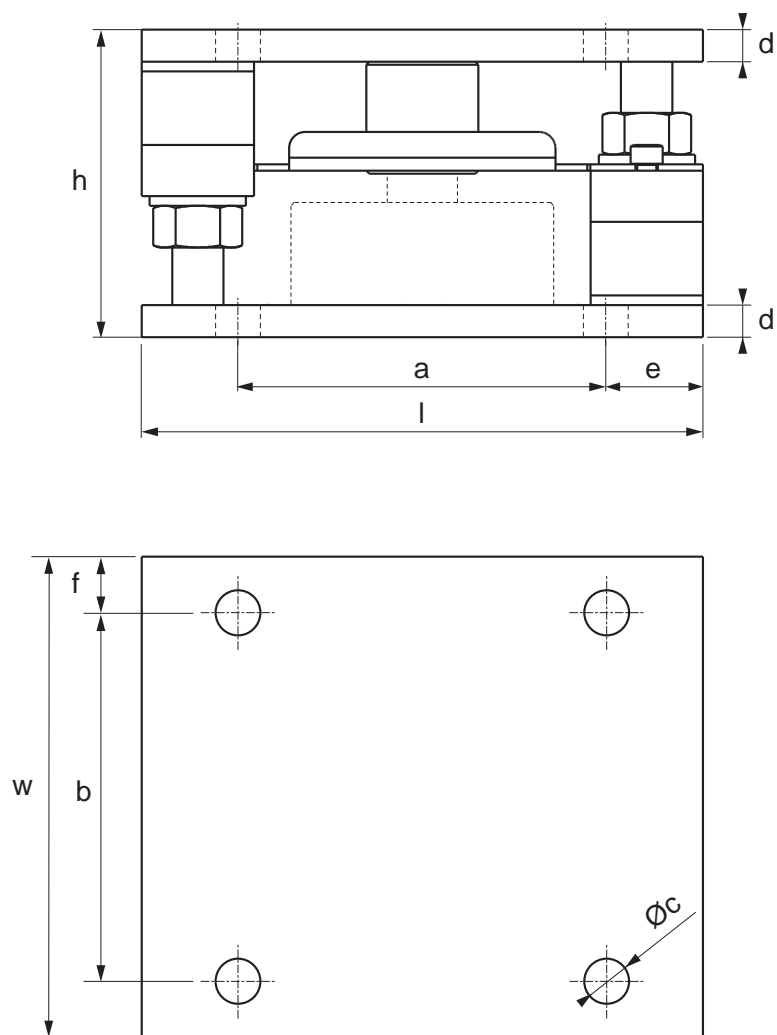
Construction in nickel-plated steel
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Self-centering connection segment between lower and upper plate
Protection against electrostatic charges
Great resistance to lateral forces
Locking nuts to maintain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

Options & accessories

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



Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c \varnothing (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.



Version codes

Mounting kits	Material	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) (UNI EN 1090 upon request)	
	Stainless steel	5,4	CPX - 15.000	45	25	KCPN15 (Load cell not included)	
	Stainless steel	9,4	CPX - 30.000 CPA - From 20.000 to 50.000	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

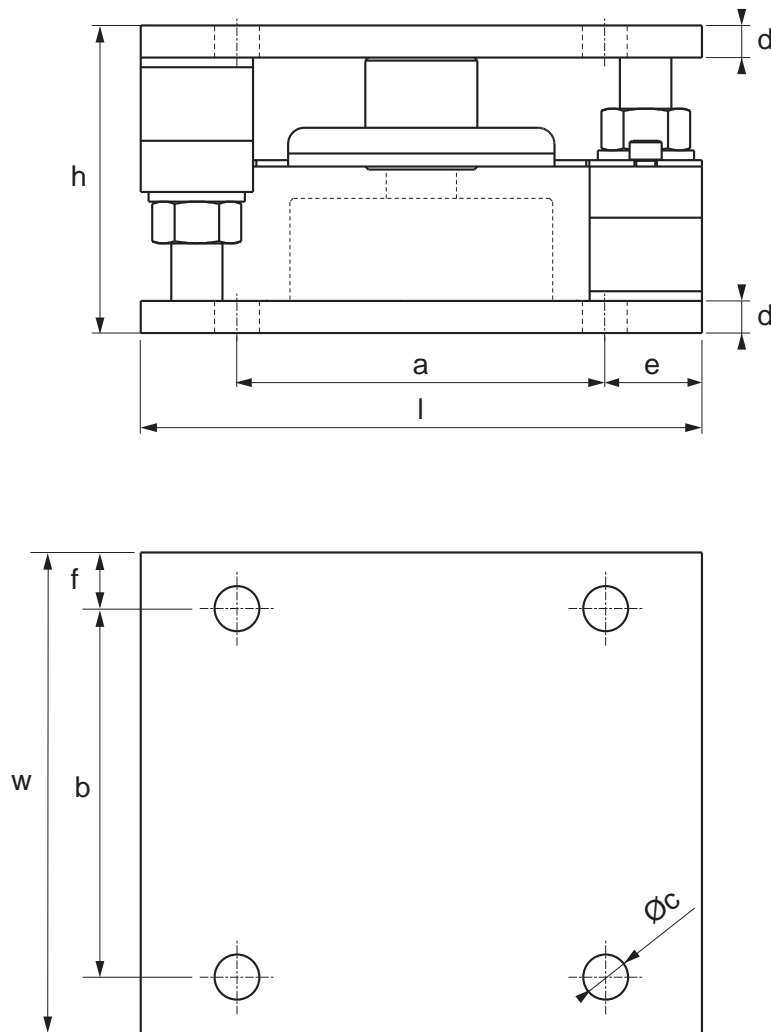
Option	Description	Code	
	ATEX declaration for the PLATFORM / LOAD CELL ASSEMBLY KIT (for load cell ATEX declaration see CCATEX code). Option to be offered only if the platform is ordered without the indicator, otherwise refer to the available certifications for the chosen weight indicator.	DCATEXMECH	

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



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	175	150	96	115	115	N°8 x 14	10	30	17,5	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

Options & accessories


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

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.

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	CPX - 30.000 CPA - From 20.000 to 50.000	130	100	KCP50 (Load cell not included)	

Technical features

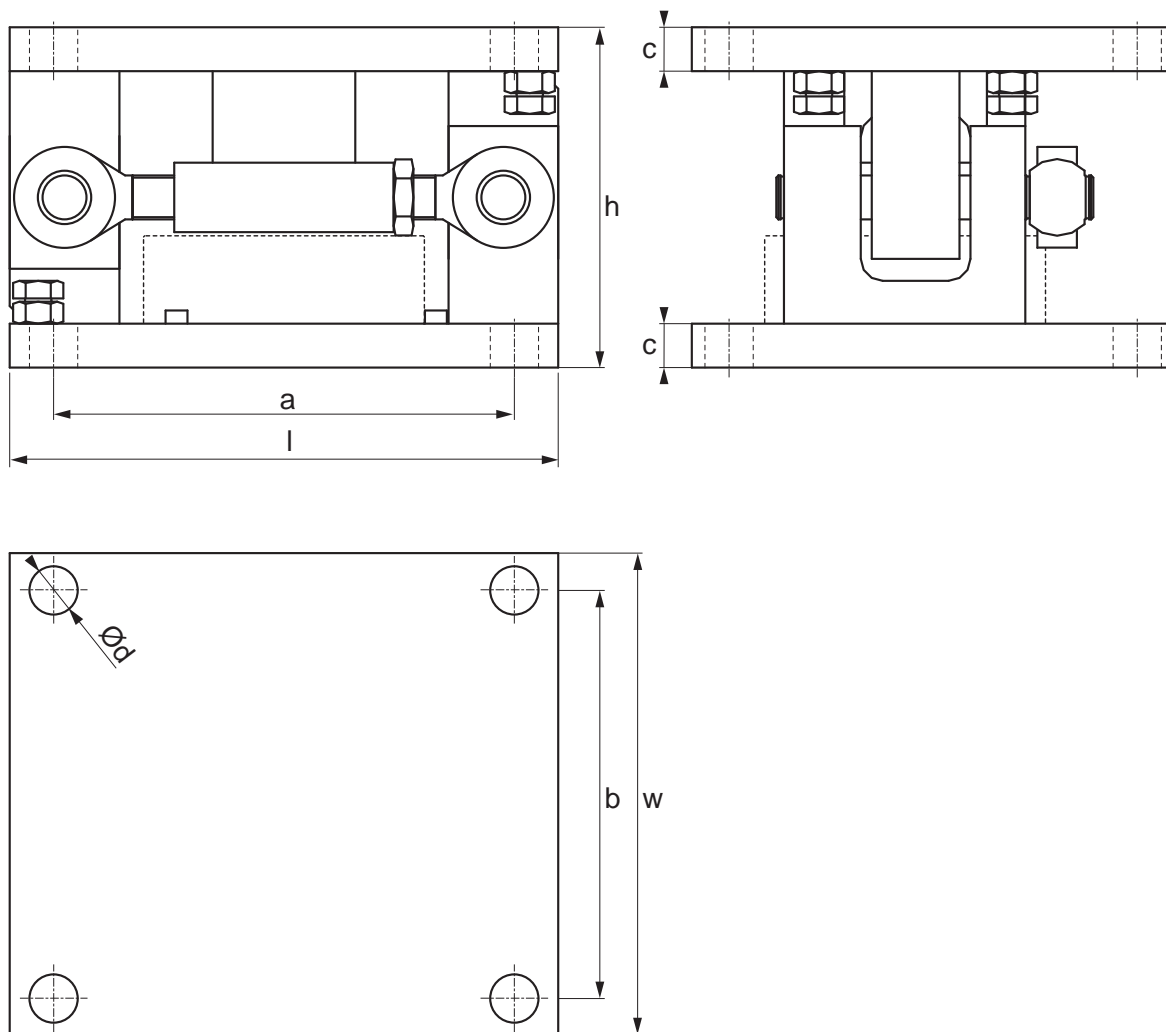
Construction in zinc-plated steel
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Great resistance to lateral forces
Locking nuts to maintain the raised position simplify the installation and the removal of the load cell
Dummy load cells for liquid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

Options & accessories

Option	Description	Code	
	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



Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c (mm)	d Ø (mm)	Code
50.000	250	220	155	210	186	20	22	KCP50

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


Version codes

Mounting kits	Material	Weight (kg)	Max capacity (kg)	Max lift-off force (kN)	Max side force (kN)	Code	
	Zinc-plated steel	86	CPX - From 50.000 to 100.000 kg	400	200	KCP100H (Load cell not included)	

Technical features

Construction in zinc-plated steel
Double anti-tipping system
Overload protection nuts
Locking nuts to maintain the raised position simplify the installation and the removal of the load cell
UNI EN 1090 certificate upon request

Options & accessories

Option	Description	Code	
	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.

OFF-CENTER

BENDING
BEAMSHEAR
BEAMDOUBLE
SHEAR BEAM

TENSION

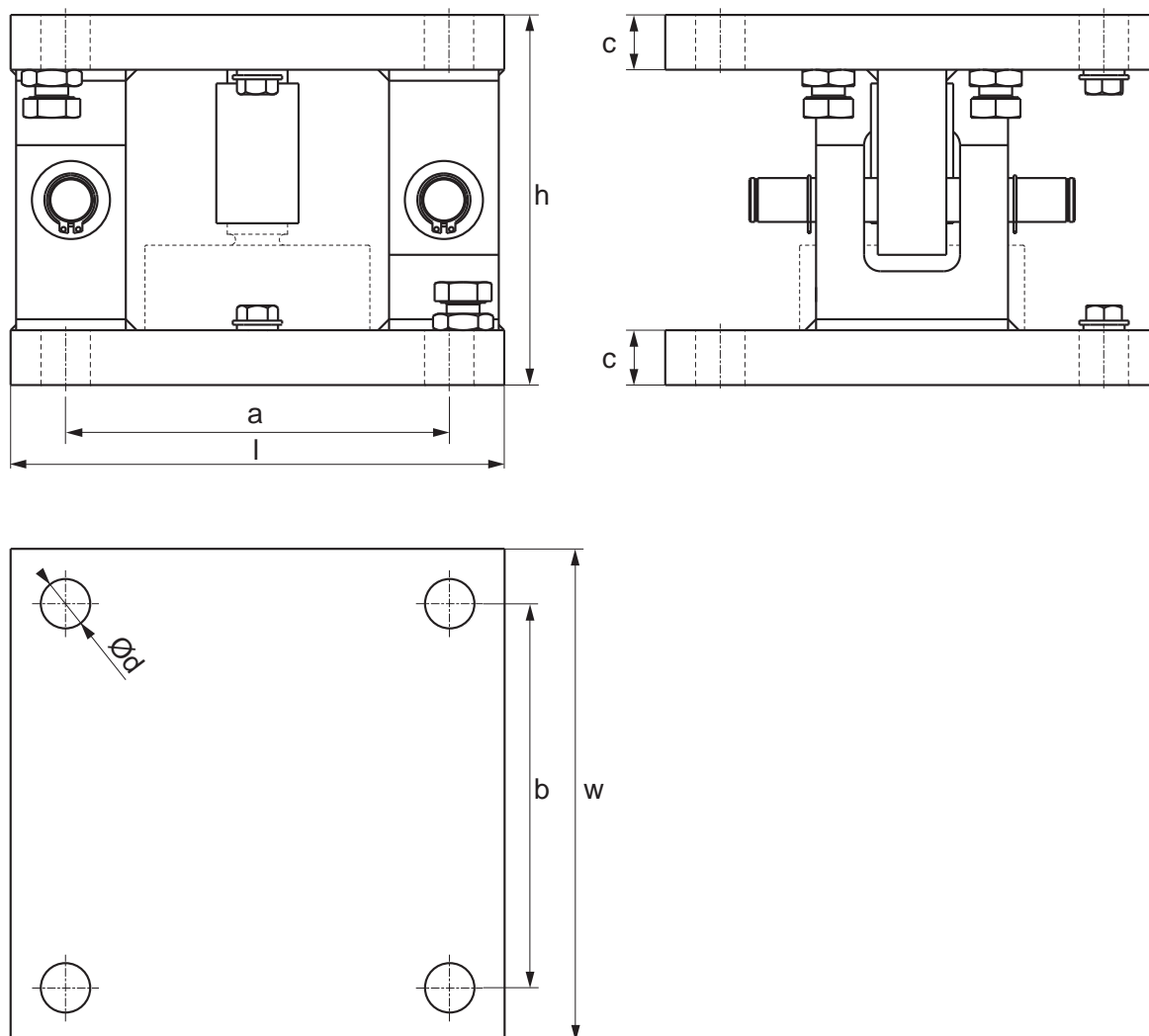
COMPRESSION

COLUMN

LOAD PINS

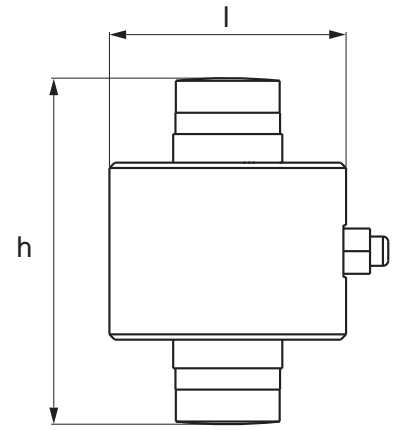
OTHER

Technical drawing




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)	Code
30.000	88,9	130	RCA30C4 


ATEX certification

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

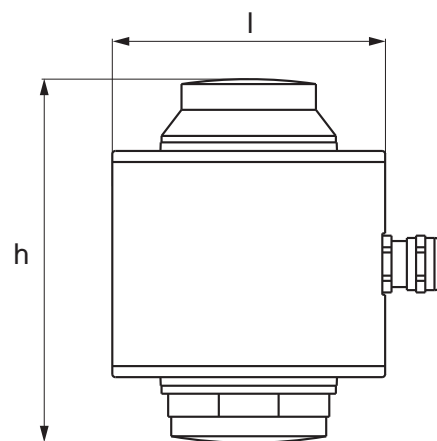
Technical features

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	

Options & accessories

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


RL5426 | COLUMN





Version codes

Max (kg)	l Ø (mm)	h (mm)	Code
20.000	88,9	118,5	177961 
30.000			177963 
40.000			177965 
50.000			177967 

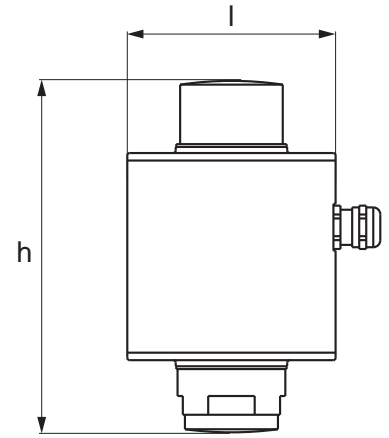
Technical features

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 ± 0,1 %
Temperature effect on full scale output	0,0008 % / °C
Temperature effect on zero	0,003 % / °C
Creep at nominal load over 30 minutes	0,02 % F.S.
Input resistance	800 ± 3 Ω
Output resistance	700 ± 3 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,02 % F.S.
Insulation resistance	5.000 MΩ
Zero balance	-
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-10 °C / +70 °C
Storage temperature range	-40 °C / +80 °C
Safe overload	120 % F.S.
Breaking load	150 % F.S.
Shielded cable	 Ø 6,5 mm = 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




Version codes

Max (kg)	l Ø (mm)	h (mm)	Code
20.000	88,9	150	168084 
30.000			168087 
40.000			168089 
50.000			168090 

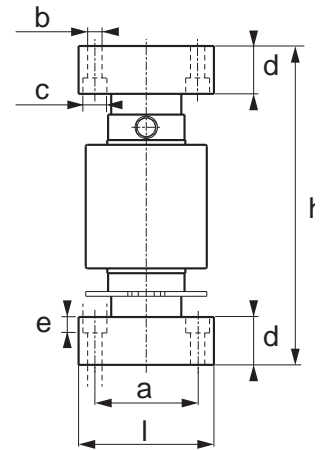
Technical features

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 ± 0.1 %
Temperature effect on full scale output	0,0008 % / °C
Temperature effect on zero	0,003 % / °C
Creep at nominal load over 30 minutes	0,02 % F.S.
Input resistance	800 ± 5 Ω
Output resistance	700 ± 3 Ω
Nominal range of excitation voltage	5 - 15 Vdc
Combined error	0,02 % F.S.
Insulation resistance	5.000 MΩ
Zero balance	-
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-20 °C / +70 °C
Storage temperature range	-40 °C / +80 °C
Safe overload	120 % F.S.
Breaking load	150 % F.S.
Shielded cable	 Ø 6,5 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
30.000	85	200	64,5	N°4 x 9	N°4 x 15	30	10	RCPT30C3NC* 
20.000								RCPT20C3 
30.000								RCPT30C3 
50.000								RCPT50C3 

*NC = version without cups

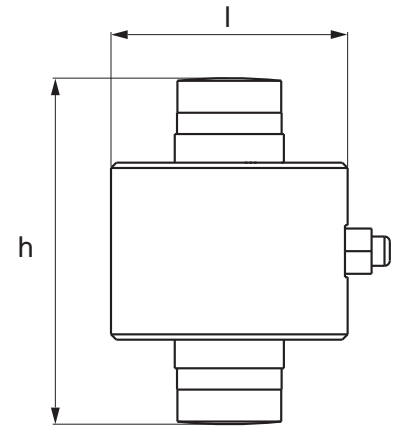
ATEX certification

Option	Description	Code
	Optional ATEX version (see www.dinargeo.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	


RCD | COLUMN




Version codes

Max (kg)	l Ø (mm)	h (mm)	Code
30.000	88,9	130	RCD30C4 
40.000			RCD40C4 
50.000			RCD50C4 

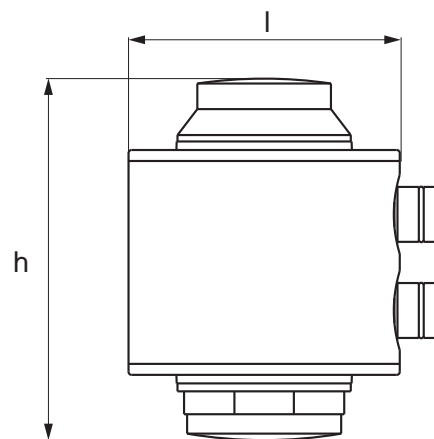
Technical features

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

Options & accessories

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	195845
40.000			195846

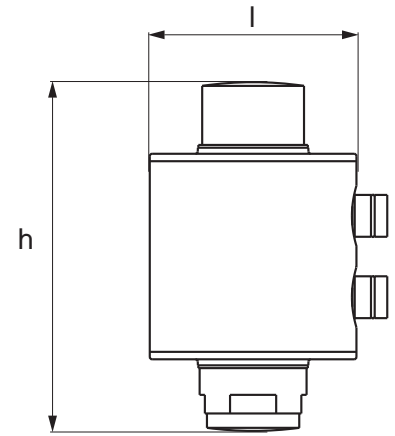
Technical features

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	0,0008 % / °C
Temperature effect on zero	0,003 % / °C
Creep at nominal load over 30 minutes	0,02 % F.S.
Nominal range of excitation voltage	8 - 15 Vdc
Combined error	0,02 % F.S.
Zero balance	-
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-20 °C / +70 °C
Safe overload	120 % F.S.
Breaking load	150 % 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 = 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	195843 
40.000			195844 

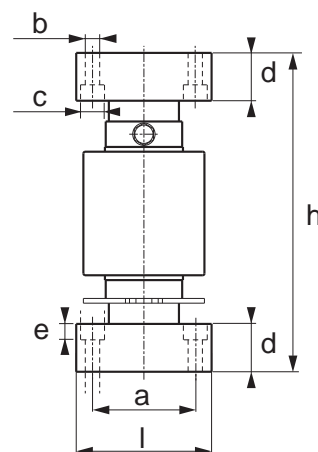
Technical features

Maximum number of verification intervals	nLC = 4.000
Maximum capacity	40.000 kg
Y value	Vmin = Emax / 18.000
Nominal rated output	60.000 digits
Temperature effect on full scale output	0,0008 % / °C
Temperature effect on zero	0,003 % / °C
Creep at nominal load over 30 minutes	0,02 % F.S.
Nominal range of excitation voltage	8 - 15 Vdc
Combined error	0,02 % F.S.
Zero balance	-
Compensated temperature range	-10 °C / +40 °C
Operating temperature range	-20 °C / +70 °C
Safe overload	120 % F.S.
Breaking load	150 % 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=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

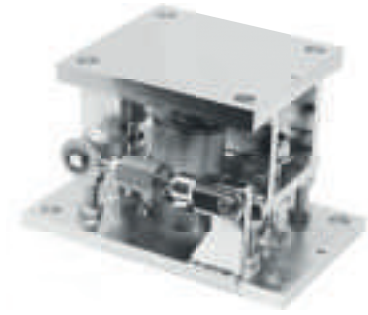


Version codes

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	RCPTD30C4-1 

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	-10 °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

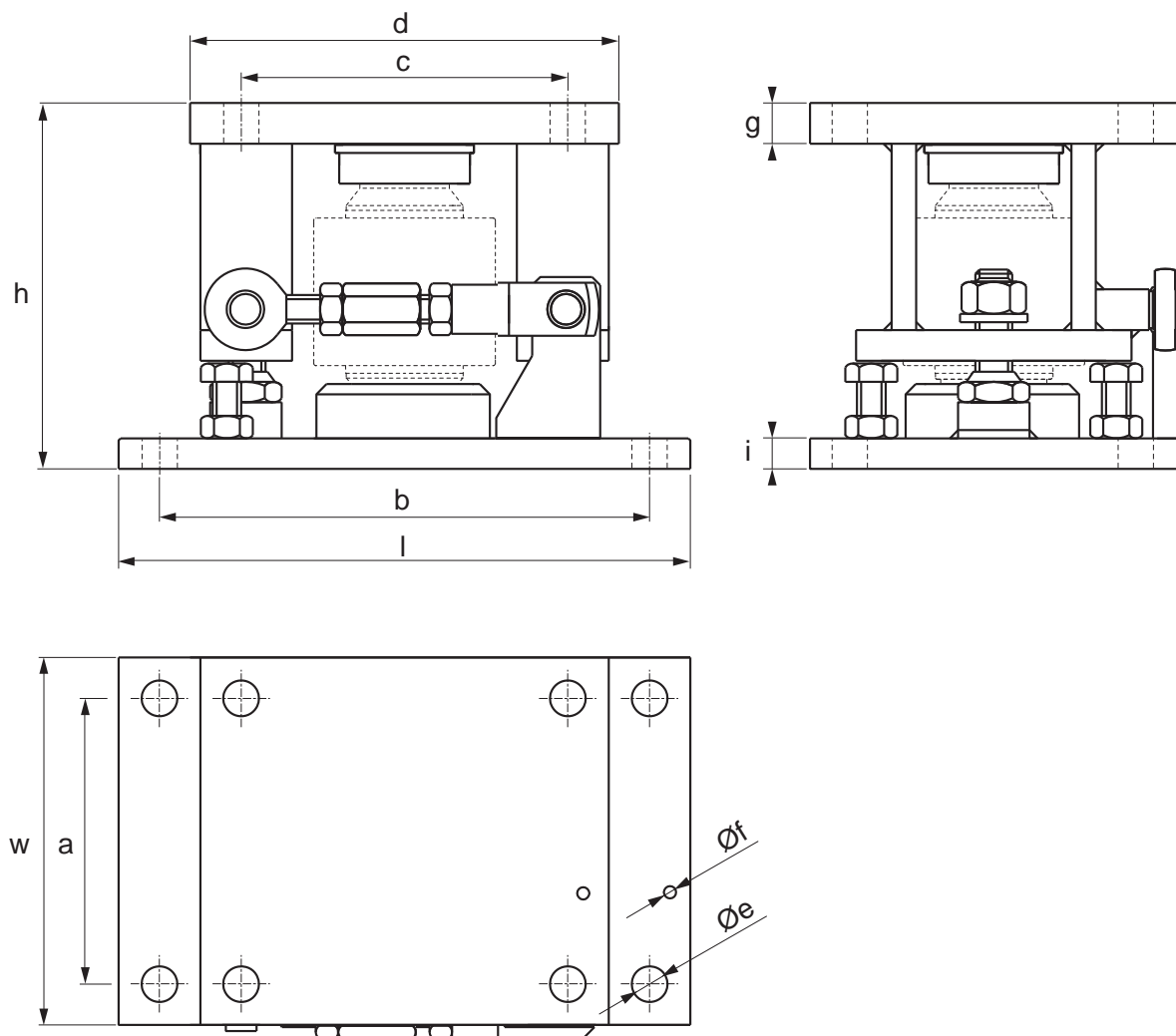
Construction in zinc-plated steel
Anti-tipping system
Locking/bypass system for easy transport and maintenance
Overload protection nuts
Great resistance to lateral forces
Locking nuts to maintain the raised position simplify the installation and the removal of the load cell

Options & accessories

Option	Description	Code	
	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



Max (kg)	l (mm)	w (mm)	h (mm)	a (mm)	b (mm)	c (mm)	d (mm)	e \varnothing (mm)	f \varnothing (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.



The strength of the Load Pins is to be custom made to replace existing pins, introducing weight reading at strategic points where other load cells could not be installed.








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	•	10+1 (PG9)	POLYESTER	•	IP66	-	JB10Q	
	220 x 120 x 90	•	10+1 (PG9)	POLYESTER	•	IP66	-	JB10QD - Digital	

Options & accessories


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		Code	
	85 x \varnothing 18 (\varnothing internal 13,9)	-	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	●	IP69K	-	JB4QIP69K	
	190 x 132 x 50	●	6+1 (PG9)	Stainless steel	-	IP65	-	JB6QI	

Options & accessories

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.

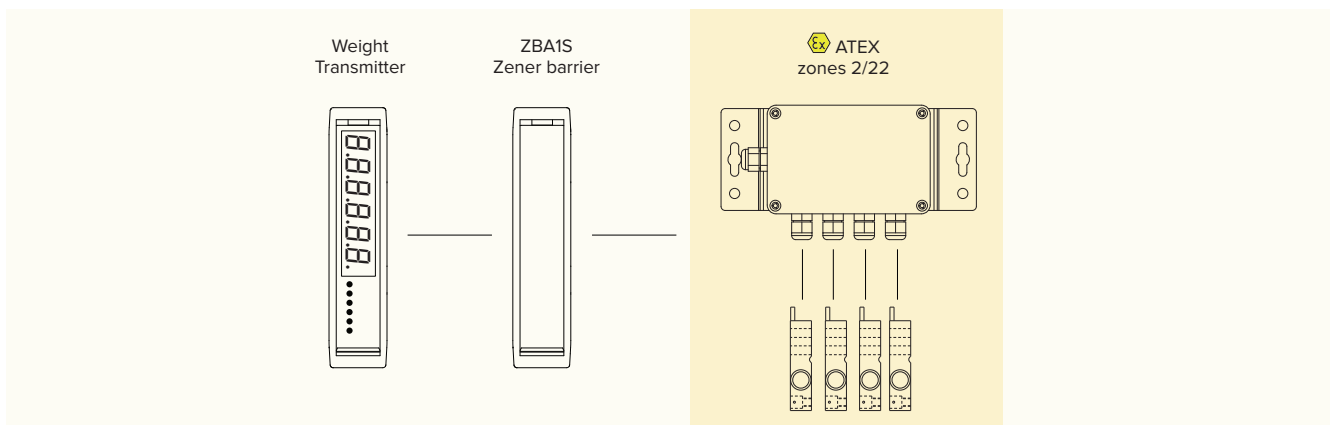


Version codes

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	
	ATEX ABS housing kit with ZBA1S Zener barrier for load cells. For intrinsically safe weighing systems in hazardous areas. Dimensions 179x359x166,5mm. It can connect up to 8 350 Ohm load cells. ATEX II 3(1)G Ex nA [ia Ga] IIC T4 Gc X for gas, ATEX II 3(1)D Ex tc [ia Da] IIIC T135°C Dc IP66 X for dust.	KZBA-1	
	Shielded 6 x 0,25 mm ² cable (suitable for Ex zones). €/m	LCCB	
	Shielded, blue, 6 x 0,22 mm ² cable, for EX i (2GD) applications. €/m	EXCB6	

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 compound type Rz. Grey colour.
Laying	Fixed. Maximum drawing strength 50 N/mm ² of total copper section. Minimum bending radius: outer diameter of cable times 10.

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 mm ² cable for moving applications. €/m.	LCCBM	
	Protection sheathing for shielded cable. €/m	PRCB	

Technical features

Type	4 pins x 0,34 mm ² .
Conductor	Extra-flexible copper class 6.
Insulation	Polyolefin.
Shield	Tinned copper braid shield; coverage ≥ 85%.
Sheath	Abrasion resistant Polyurethane. Green colour.
Laying	Dynamic. Minimum bending radius: outer diameter of cable times 6.

OFF-CENTER

BENDING
BEAMSHEAR
BEAMDOUBLE
SHEAR BEAM

TENSION

COMPRESSION

COLUMN

LOAD PINS


OTHER

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 pins.
Conductor	Stranded tinned copper class 6.
Insulation	PVC + 105°.
Shield	Tinned copper braid shield; coverage 80%.
Sheath	Polyurethane. Blue colour.
Laying	Fixed. Minimum bending radius: outer diameter of cable times 7.

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.

”

HIGH SPEED PROCESS & AUTOMATION WEIGHT TRANSMITTERS

Comparative table

		DGT1SX	DGT4X	DGX4SP
Number of scales / channels		1	Up to 4	Up to 4
Conversion rate		Up to 4.800 Hz	Up to 2.600 Hz	Up to 2.600 Hz
Web server		•	•	
Integrated fieldbus		•	•	
Modbus RTU		•	•	•
RS485		•	•	•
RS232			•	
USB		•	•	
Digital I/O		•	•	
Analog Output		•	•	
Case		ABS	ABS	
Electric approvals	UL Listed	Upon request	Upon request	
Metrological approvals	OIML R61 MID	•	•	
	OIML R51	•	•	
	OIML R76	•	•	
	EU Type Examination certificate	•	•	•

DGT1SX | 1 CHANNEL

WITH INTEGRATED FIELDBUS & WEB SERVER

Highlights:

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

LOAD CELL
FAILURE ALARM4800 Hz
SUPER FASTOIML
APPROVEDUSB
PORTWEB
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 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		8 mm red LED, 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
Conversion rate	0,1 s





Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
4 Digital outputs	48 Vac 60 Vdc	500 mA

Version codes

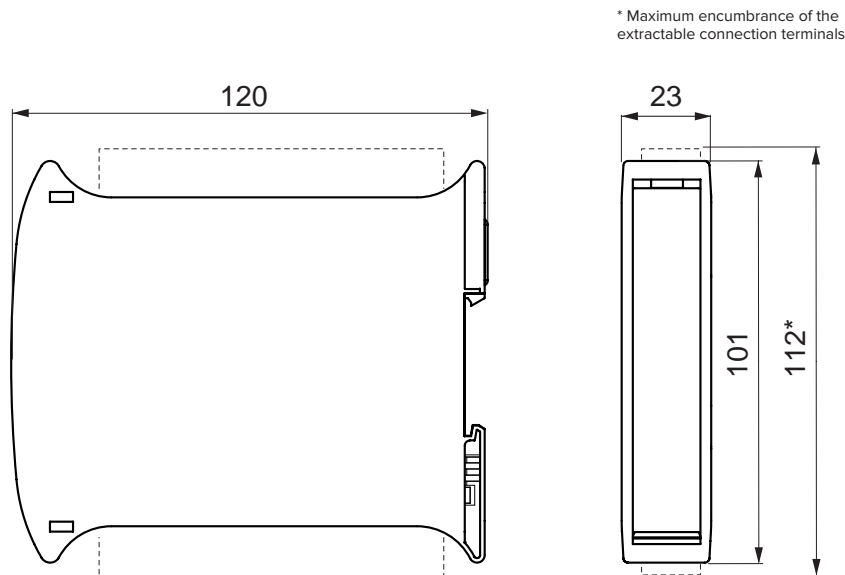
Fieldbus	Analog output	Modbus RTU	RS485	2 IN / 4 OUT	USB	Web server	Code	
		•	•	•	•		DGT1SX	
	•	•	•	•	•		DGT1SXAN	
PROFINET	○			•	•	•	DGT1SXPRONET	
EtherNet/IP	○			•	•	•	DGT1SXETHIP	
Modbus/TCP	○			•	•	•	DGT1SXMODTCP	
EtherCAT	○			•	•		DGT1SXETHCAT	
Profibus	○			•	•		DGT1SXPB-1	
CANopen	○			•	•		DGT1SXCANOP	
DeviceNet	○			•	•		DGT1SXDEVNET	

○ Special version, ask for estimate.

Options & accessories

	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	
FIRMWARE	 Firmware for dynamic checkweighers (AWI)	OIMLR51	
	 Firmware for automatic filling machines (AWI)	OIMLR61	
PC SOFTWARES	 "XSPEED" PC software with oscilloscope function for system diagnostics and weighing filter optimization.	XSPEED	

Technical drawing



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

2600 Hz
SUPER FASTOIML
APPROVEDUSB
PORTWEB
SERVERJBOX
MODEUP 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 2.600 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
Conversion rate	0,1 s

Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
2 Digital outputs	48 Vac 60 Vdc	500 mA

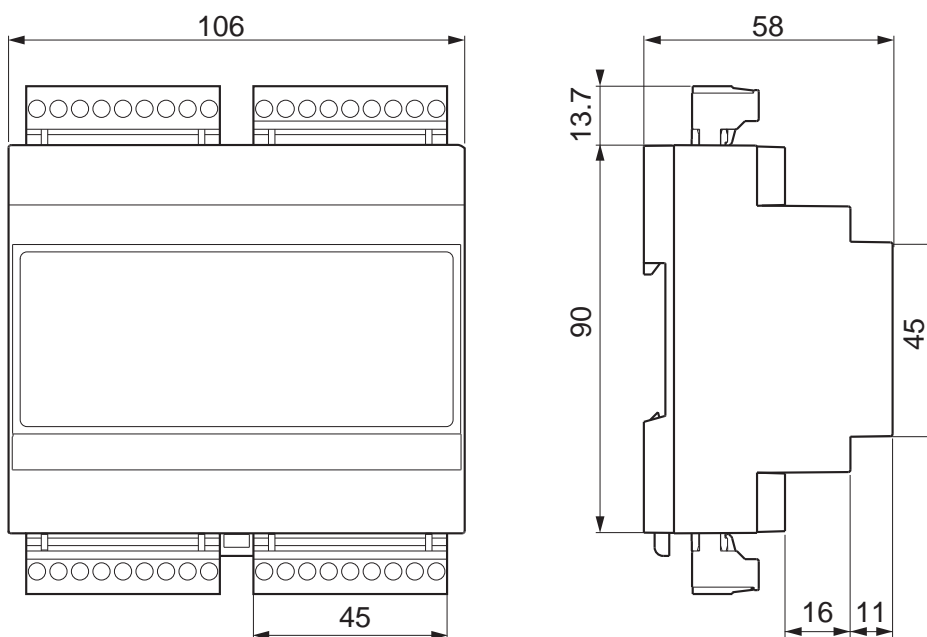
Version codes

Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	USB	Web server	Code	
		•	•	•	•	•		DGT4X	
	•	•	•	•	•	•		DGT4XAN	
PROFINET			•		•	•	•	DGT4XPRONET	
EtherNet/IP			•		•	•	•	DGT4XETHIP	
Modbus/TCP			•		•	•	•	DGT4XMODTCP	
EtherCAT			•		•	•		DGT4XETHCAT	
Profibus			•		•	•		DGT4XPB	
CANopen			•		•	•		DGT4XCANOP	
DeviceNet			•		•	•		DGT4XDEVNET	

Options & accessories

		Description	Code	
FIRMWARE		Firmware for digital load cells management (silos, weighbridges...)	XDC	
POWER SUPPLY		12 Vdc power supply unit for DIN rail mounting. 110/240 Vac input. CE and UL certified. Not compatible with BOX2121S.	MDR2012	
PC SOFTWARES		"XSPEED" PC software with oscilloscope function for system diagnostics and weighing filter optimization.	XSPEED	

Technical drawing



DGX4SP | 4 CHANNELS2600 Hz
SUPER FASTOIML
APPROVEDJBOX
MODEUP TO 4
SCALES

Main features



Technical features			
Number of scales / channels		Up to 4	
Calibration		Electronic (Theoretical)	Real calibration with sample weights Via XSpeedTool
Conversion rate		Up to 2.600 Hz	
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 protocols		Modbus RTU, ASCII	
Communication rate		Up to 60 Hz	
Configuration PC utility		XSpeedTool	
Power supply		4,5÷24 Vdc, 5 W	
Operating temperature range		Internal Use	OIML approved
		-20 °C / +60 °C	-10 °C / +40 °C
			Humidity
			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

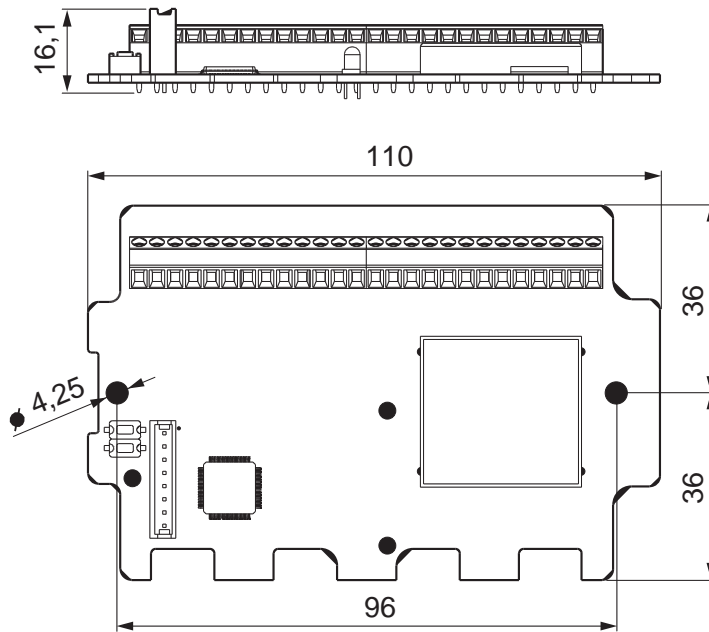
Version codes

Modbus RTU	RS485	Code	
•	•	DGX4SP	

Options & accessories

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

Technical drawing




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: <ul style="list-style-type: none"> - 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		"XSPEED" PC software with oscilloscope function for system diagnostics and weighing filter optimization.	XSPEED

DINI AR GEO
XSPEED TOOL

- Analysis
- Check
- Scale
- Test
- Settings

0 kg

TARE kg
 GROSS kg

Max. 10.000 kg d 0,001 kg

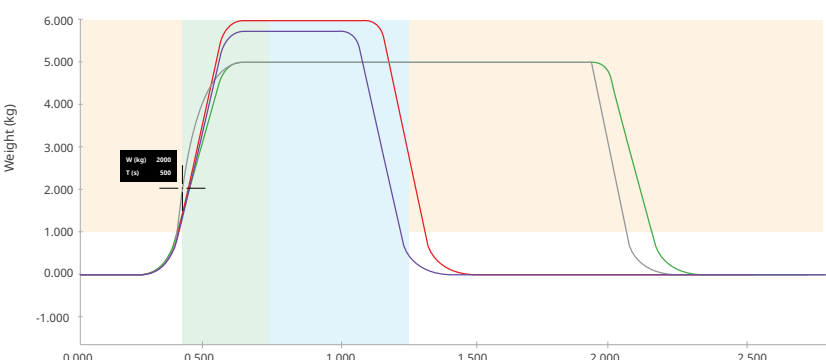
Check

Raw data Overlap Hz spectrum

Weighs (kg) **Filter**

1	Coarse	97 %	<input checked="" type="checkbox"/>
	Fine	50 %	<input type="checkbox"/>
	Selective 1	50 Hz	<input type="checkbox"/>
	Selective 2	100 Hz	<input type="checkbox"/>
2	Coarse	95 %	<input checked="" type="checkbox"/>
	Fine	40 %	<input type="checkbox"/>
	Selective 1	20 Hz	<input type="checkbox"/>
	Selective 2	10 Hz	<input type="checkbox"/>
3	Coarse	97 %	<input checked="" type="checkbox"/>
	Fine	50 %	<input type="checkbox"/>
	Selective 1	50 Hz	<input type="checkbox"/>
	Selective 2	100 Hz	<input type="checkbox"/>
4	Coarse	97 %	<input checked="" type="checkbox"/>
	Fine	50 %	<input type="checkbox"/>
	Selective 1	50 Hz	<input type="checkbox"/>
	Selective 2	100 Hz	<input type="checkbox"/>

[Clear all](#)



Expand Narrow Move

Setting time (s) 0,300
 Measuring time (s) 0,500

Threshold (s) 1000
 Correction (kg) 0,0000

Data acquisition

Data acquisition Triggers Start 10 kg Stop 5 kg **Start**

Device DGT4X
S.N. 0000000000
Release 05.02.00.003

Filters

Rate 2600 Hz Refresh

Coarse 94 %
It filters the belt vibration. Suggested from 94%.

Fine 50 %
It flats the wave. Suggested from 50%.

Selective 1 50 Hz
It removes a noise with a certain frequency

Selective 2 100 Hz
It removes a noise with a certain frequency

Send Receive

DGT15X

DGT4X

DGX4SP

DGT15 PLUS

DGT15

DGT1

DGT4

DGT1P

DGT1P


DGT1Q

DGT20

DGT201

v 1.0

Prices and specifications subject to change without notice. Visit www.diniargeo.com for current prices.



87



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.

”

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
Conversion rate		Up to 400 Hz	
Maximum display digits		0...800.000	
Maximum load cell number		Up to 21 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
		-20 °C / +60 °C	-10 °C / +40 °C
			Humidity
			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
Conversion rate	0,1 s

Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
2 Digital outputs	48 Vac 60 Vdc	500 mA

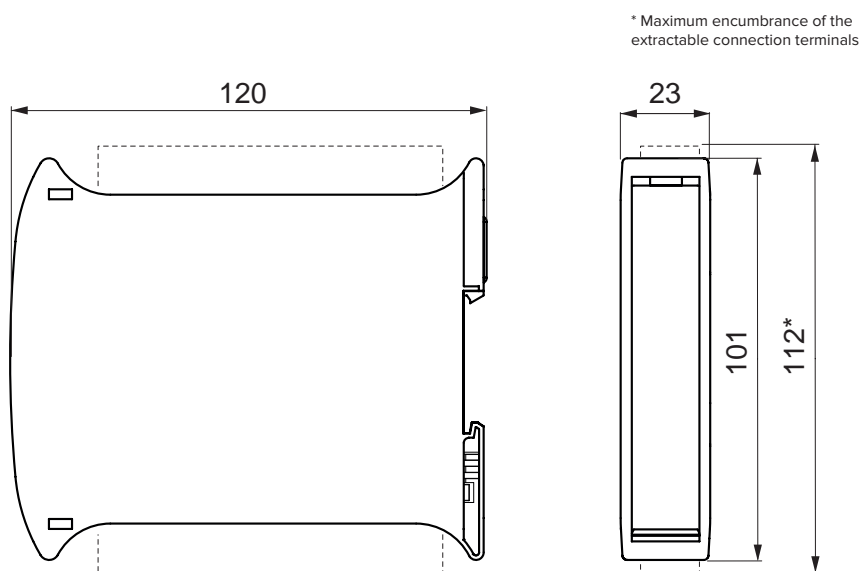
Version codes

Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	Web server	USB	Code	
		•	•	•	•			DGT1SP	
	•	•	•	•	•			DGT1SPAN	
PROFINET					•	•	•	DGT1SP-PRONET	
EtherNet/IP					•	•	•	DGT1SP-ETHIP	
Modbus/TCP					•	•	•	DGT1SP-MODTCP	
EtherCAT					•		•	DGT1SP-ETHCAT	
Profibus					•		•	DGT1SP-PBUS	
CANopen					•		•	DGT1SP-COPEN	
DeviceNet					•		•	DGT1SP-DEVNET	

Options & accessories

	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



DGT1S | 1 CHANNEL



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
		-20 °C / +60 °C	-10 °C / +40 °C
			Humidity
			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
Conversion rate	0,1 s

Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
2 Digital outputs	48 Vac 60 Vdc	150 mA

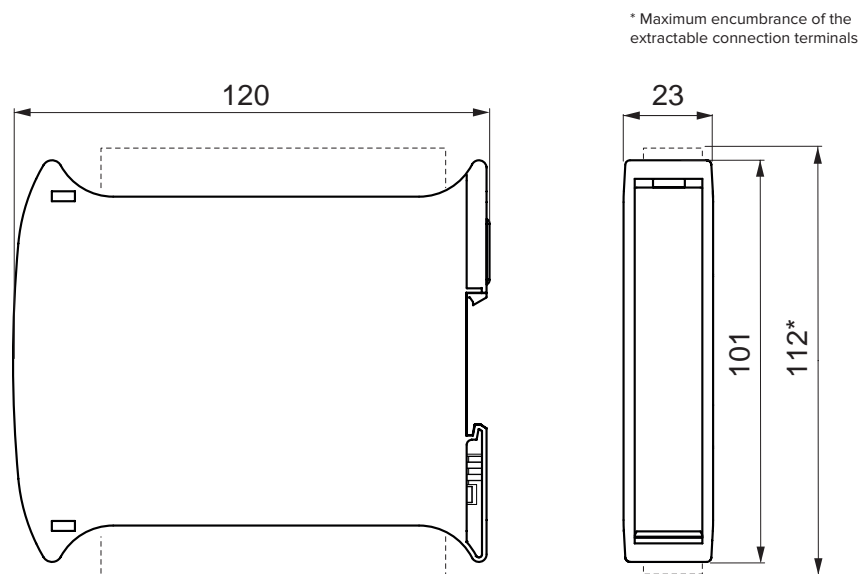
Version codes

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

Options & accessories

	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	
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



DGT1 | 1 CHANNELOIML
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 μ V/d	
	Legal for trade	0,3 μ V/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
		-20 °C / +60 °C	-10 °C / +40 °C
			Humidity
			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
Conversion rate	0,1 s

Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
2 Digital outputs	48 Vac 60 Vdc	150 mA

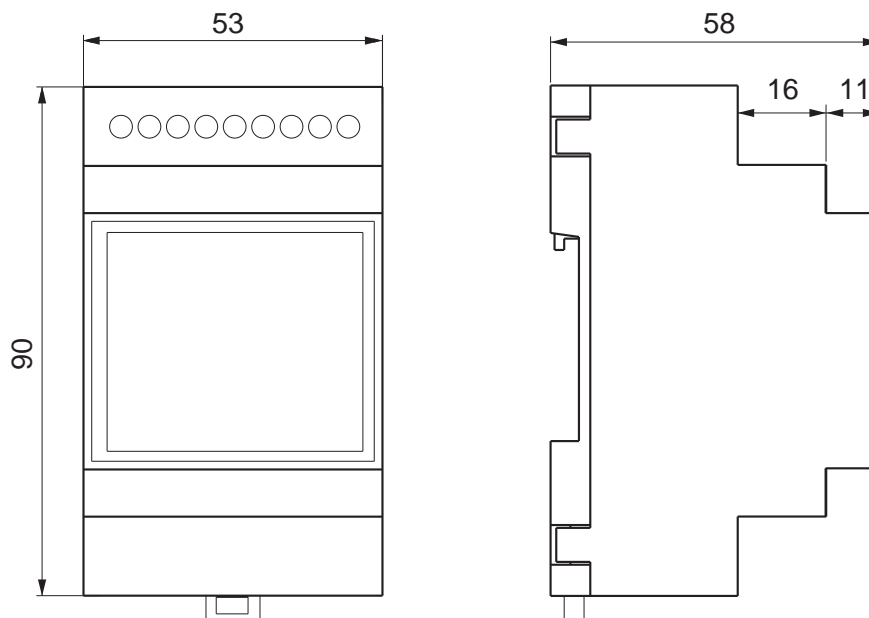
Version codes

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

Options & accessories

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



DGT4 | 4 CHANNELS

WITH INTEGRATED FIELDBUS & WEB SERVER

OIML
APPROVEDWEB
SERVERUP TO 4
SCALES

Main features

Technical features			
Number of scales / channels		Up to 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 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
		-20 °C / +60 °C	-10 °C / +40 °C
		Humidity	
		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
Conversion rate	0,1 s

Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
2 Digital outputs	48 Vac 60 Vdc	150 mA

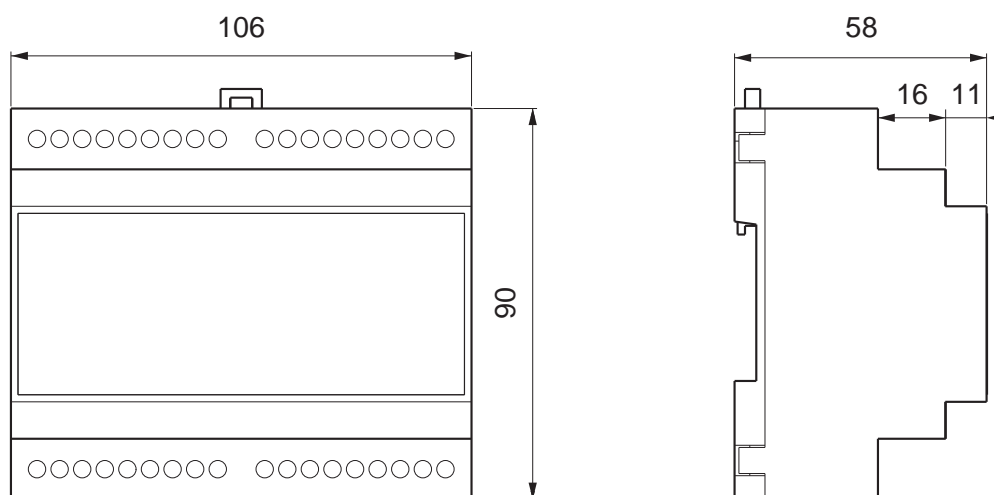
Version codes

Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	Web server	Code	
		•	•	•	•		DGT4	
	•	•	•	•	•		DGT4AN	
PROFINET				•	•	•	DGT4PRONET	
EtherNet/IP				•	•	•	DGT4ETHIP	
Modbus/TCP				•	•	•	DGT4MODTCP	
EtherCAT				•	•		DGT4ETHCAT	
Profibus				•	•		DGT4PB-1	
CANopen				•	•		DGT4CANOP	
DeviceNet				•	•		DGT4DEVNET	

Options & accessories

	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	
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



DGT1P | 1 CHANNELOIML
APPROVEDFRONT
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
		-20 °C / +60 °C	-10 °C / +40 °C
			Humidity
			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
Conversion rate	0,1 s


Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
2 Digital outputs	48 Vac 60 Vdc	500 mA

Version codes

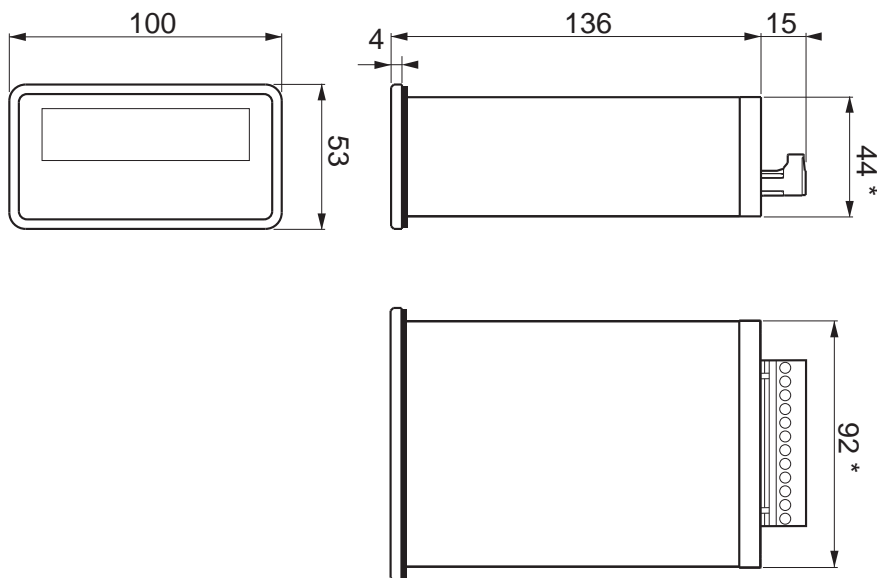
Analog output	Modbus RTU	RS485	2 IN / 2 OUT	Code	
	•	•	•	DGT1P	
•	•	•	•	DGT1PAN	

Options & accessories

	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



* 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
Conversion rate	0,1 s

Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
6 Digital outputs	48 Vac 60 Vdc	150 mA

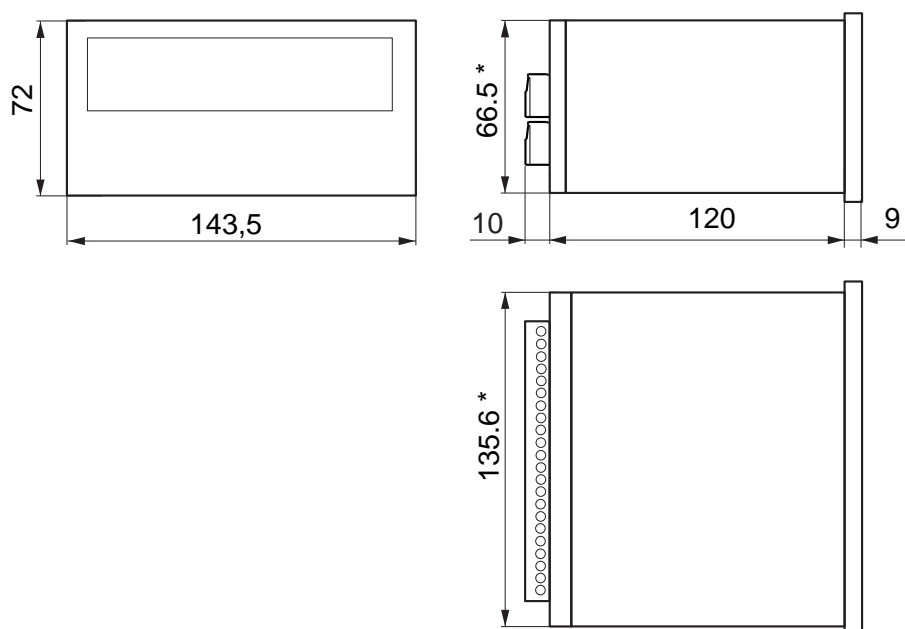
Version codes

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

Options & accessories

	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



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

DGTQ | 1 CHANNEL

WITH INTEGRATED PROFIBUS



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 μ V/d	
	Legal for trade	0,3 μ V/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	Up to 325 Hz	Via Fieldbus
			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	-20 °C / +60 °C	
	OIML approved		-10 °C / +40 °C
	Humidity		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
Conversion rate	0,1 s

Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
2 Digital outputs (up to 6 with option)	48 Vac 60 Vdc	150 mA

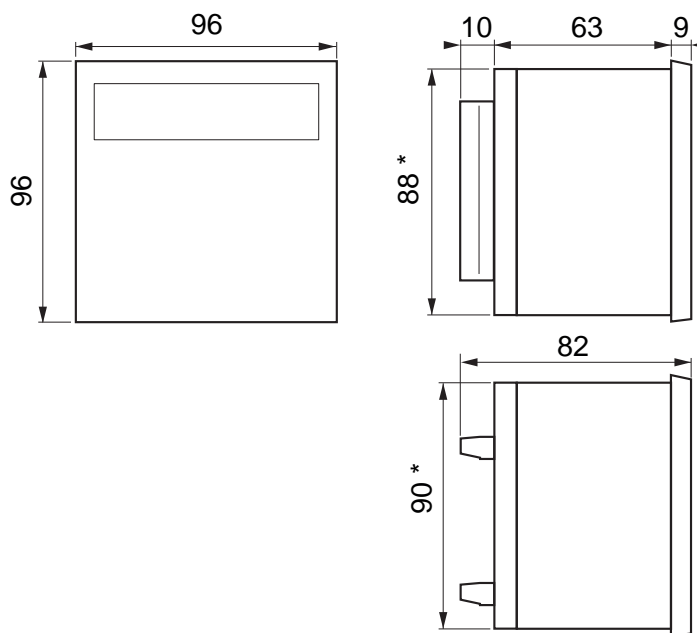
Version codes

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

Options & accessories

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

Technical drawing



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

DGT20 | 1 CHANNEL

WITH INTEGRATED FIELDBUS & WEB SERVER

WALL
BRACKET
INCLUDEDOIML
APPROVEDUNIVERSAL
BRACKET

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
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
		-20 °C / +60 °C	-10 °C / +40 °C
		Humidity	
		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
Conversion rate	0,1 s

Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
2 Digital outputs	48 Vac 60 Vdc	150 mA

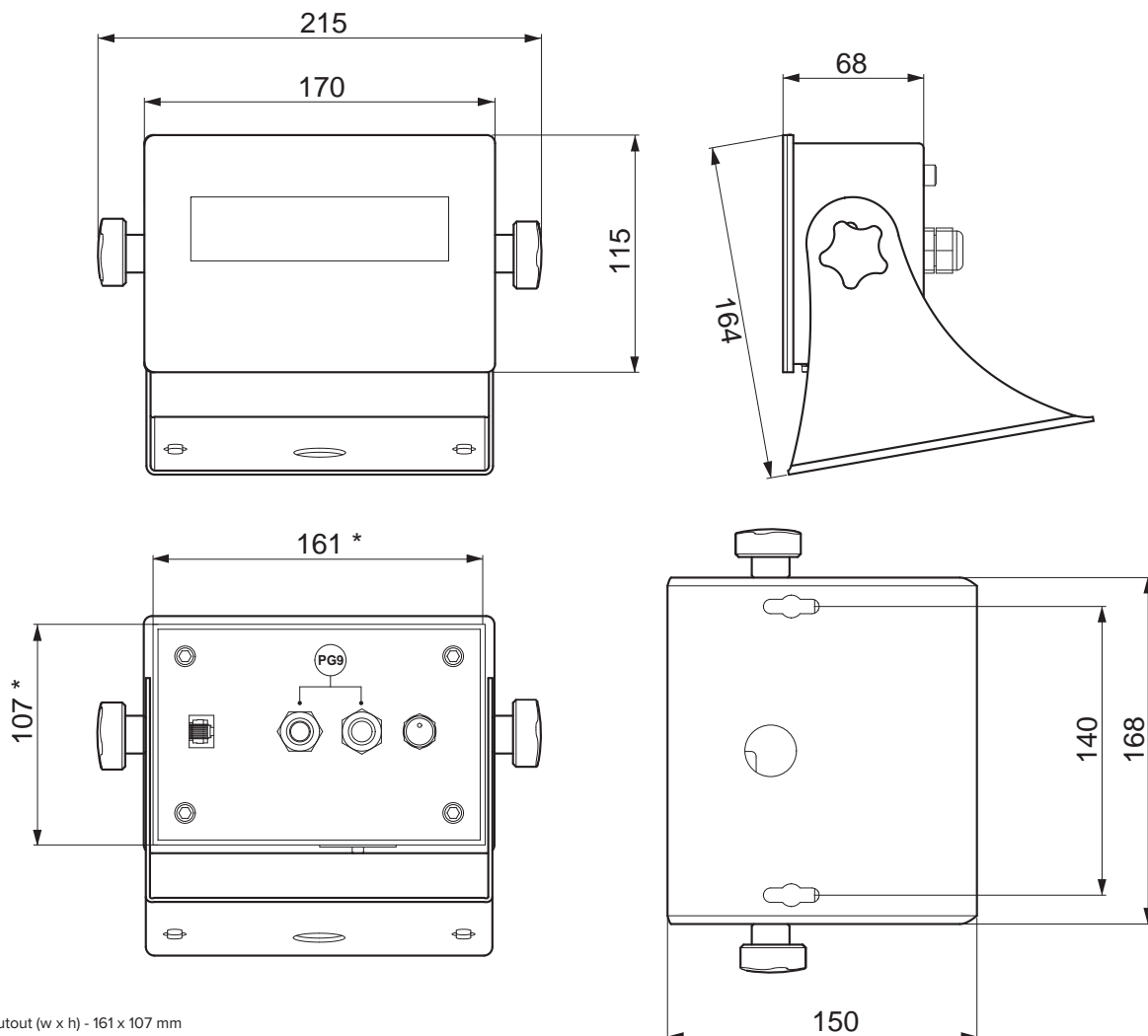
Version codes

Fieldbus	Analog output	Modbus RTU	RS485	RS232	2 IN / 2 OUT	Web server	Code	
		•	•	•	•		DGT20	
	•	•	•	•	•		DGT20AN	
PROFINET				•	•	•	DGT20PRONET	
EtherNet/IP				•	•	•	DGT20ETHIP	
Modbus/TCP				•	•	•	DGT20MODTCP	
EtherCAT				•	•		DGT20ETHCAT	
Profibus				•	•		DGT20PB-1	
CANopen				•	•		DGT20COPEN	
DeviceNet				•	•		DGT20DEVNET	

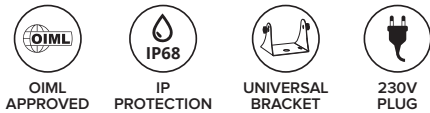
Options & accessories

	Description	Code	
SUPPORT BRACKETS	 Kit for panel installation.	DGTSTF	

Technical drawing



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

DGT20I | 1 CHANNELWALL
BRACKET
INCLUDEDOIML
APPROVEDIP
PROTECTIONUNIVERSAL
BRACKET230V
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
Conversion rate	0,1 s

Digital inputs / outputs	V	I
2 Digital inputs	12÷24 Vdc	5÷20 mA
2 Digital outputs	48 Vac 60 Vdc	150 mA

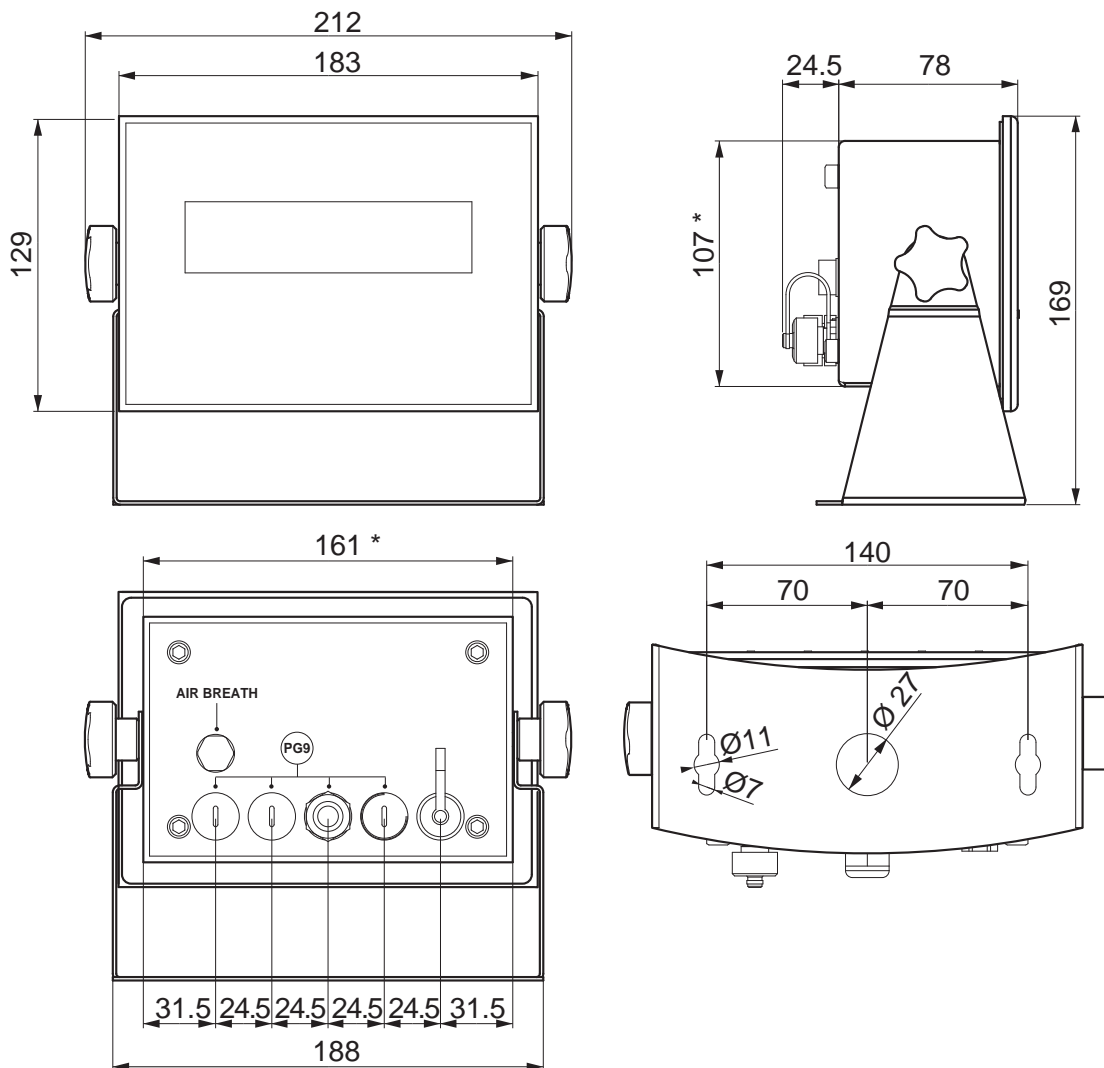
Version codes

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

Options & accessories

	Description	Code	
SUPPORT BRACKETS	 Kit for panel installation.	DGT20ISTF	

Technical drawing



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

GENERAL SALES AND WARRANTY CONDITIONS

Sales prices are always net of VAT, to be paid by the buyer.

WARRANTY / TECHNICAL ASSISTANCE - INSTALLATION / RETURNED GOODS

The warranty period is 24 months from delivery, excluding the parts classified as expendable materials such as: mechanical print heads, batteries, mass storages (SD, USB, etc.), electric motors, and wheels. The warranty period for these expendable materials is 3 months.

The warranty refers to breakdowns resulting from any construction defect or material defect of the product supplied and covers the cost of labour and spare parts. The product must be returned to Dini Argeo headquarters in its original packaging with shipping paid by the sender.

If work is required at the place of use, the applicant will bear the technician's transfer expenses. Dini Argeo will bear the labour of the repair and the cost of any replaced parts.

The warranty does not apply to breakdowns due to improper use or non-observance of the operating instructions, electrical phenomenon, tampering, unauthorised attempted repair, connections to other equipment or removal of any product identification elements (serial number, label, etc.). This warranty does not provide for any compensation for damages, direct or indirect, incurred by the user due to complete or partial failure of instruments or systems sold, even during the warranty period. The warranty for the load cells excludes the damages caused by impacts and overloads (the overload is evident if the cell output signal measured, powered and without load, has an output voltage over 1 mV).

REPAIRS - RETURNED GOODS - RMA

Repairs at Dini Argeo premises are carried out at the current hourly rates and on the basis of the prices shown in the spare parts price list. If the repair price estimate is necessary before proceeding, the applicant must explicitly request it when ordering the repair of the goods. In this case the repair will be made once the price estimate filled in by the Dini Argeo technical assistance dept. has been accepted.

Technical assistance and/or installation at the customer's premises is carried out upon agreement with Dini Argeo technical and/or sales personnel and with written confirmation for acceptance of the conditions in force.

The repair of DINI ARGEO products must be requested by sending the proper RMA (Return Material Authorization) form. Once the form has been received the Technical Assistance Dept. will communicate the applicant the RMA number that is to be indicated on the documents of transport. To use this service, simply access the reserved area and fill in the on-line form in order to send the material for repair.

Returned products will only be accepted, if previously agreed upon and authorised by Dini Argeo's sales office.

TRANSPORT AND PACKAGING

Delivery is Ex Works. The transport risks, loss and/or damage of goods, are to be borne by the buyer even if the goods are delivered carriage free. Transportation by couriers affiliated with Dini Argeo is available.

The prices shown include also cardboard packaging when the goods fit in a carton with dimensions up to 680 x 520 x 320 mm. When the goods take up more space pallets are used.

MINIMUM INVOICING / PAYMENT / OTHER CONDITIONS

For orders whose total amounts are less than 50 Euro, prices are net of discounts.

Payment delays, collection fees, and interest arrears will be charged at the "prime rate" increased by 5 percentage points. Any claims or objections do not authorise the buyer to delay or suspend payments.

The sales prices are considered accepted by Dini Argeo only after written confirmation of the purchase order by Dini Argeo and except for what was sold.

Dini Argeo reserves the right of ownership on the delivered material until the customer has paid for the goods. Any disputes arising under or in connection with the supply of products shall be finally settled according to Italian law and the place of jurisdiction is Modena.

Dini Argeo dealer network:
over 3500 partners
in more than 85 countries across the world

“YOUR WORLDWIDE PARTNER
FOR WEIGHING”



A RICE LAKE WEIGHING SYSTEMS COMPANY

COMPANY HEADQUARTERS

Via Della Fisica, 20
41042 Spezzano di Fiorano Modena • Italy
Tel. +39.0536 843418

SERVICE ASSISTANCE

Via Dell'Elettronica, 15
41042 Spezzano di Fiorano Modena • Italy
Tel. +39.0536 921784

OTHER DINI ARGEO LOCATIONS

DINI ARGEO WEIGHING INSTRUMENTS Ltd
China

DINI ARGEO UK Ltd
United Kingdom

DINI ARGEO FRANCE sarl
France

DINI ARGEO GMBH
Germany

DINI ARGEO OCEANIA
Australia

WHY CHOOSE DINI ARGEO?



WORLDWIDE SERVICE AND SHIPPING

International group with offices in America, Europe, India, China, Mexico and Oceania, over 900 employees and a network of specialised partners in 130 countries worldwide.



FAST SHIPPING

Dini Argeo always keeps complete systems in stock that can be shipped quickly.



MADE IN ITALY

Dini Argeo weighing solutions are made in Italy and guarantee the highest quality standards.

SALES SERVICE AND TECHNICAL ASSISTANCE

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Rev. 12.02.2021