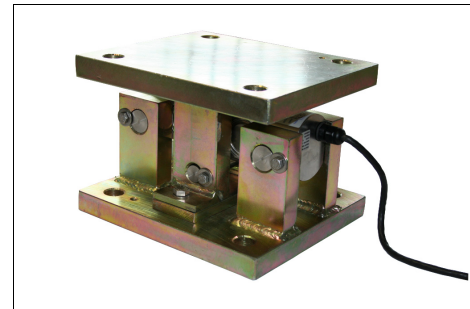


DSL Double-ended shear beam load cell



Application

- ▼ Weighing of high-capacity hoppers and tanks.
- ▼ Especially suitable for weighing vessels that are agitated or subject to major thermal expansion.
- ▼ Mechanical assembly for great fidelity even in harsh environments.

Presentation

The DSL is a double-ended shear beam load cell made of a stainless steel body, hermetically sealed by means of welding, ensuring a high level of protection.

The double-ended shear beam design makes it especially impervious to lateral forces.

Its Class C3 compliance* allows for accurate weighing in industrial environments.

Available in EX version for potentially explosive atmospheres.

Available Models

Type	Capacity (Nc)	Minimum division	Maximum load	Safe load limit
DSL 5 t	5 t	0,5 kg	7,5 t	10 t
DSL 10 t	10 t	1 kg	15 t	20 t
DSL 20 t	20 t	2 kg	30 t	40 t
DSL 30 t	30 t	3 kg	45 t	60 t
DSL 50 t	50 t	5 kg	75 t	100 t
DSL 75 t	75 t	7,5 kg	112,5 t	150 t
DSL 100 t	100 t	10 kg	150 t	200 t

Ex Certification

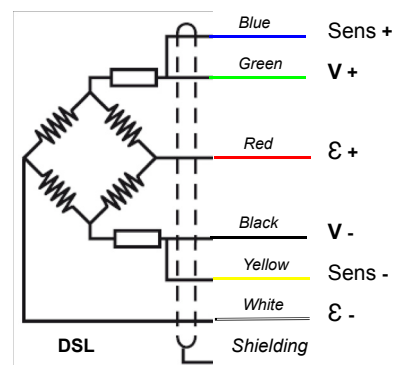
Compliant with the ATEX European Directive on equipment and protective systems intended for use in potentially explosive atmospheres as well as IECEx standards.

Ex Option

Ex version for use in potentially explosive areas.

- Zones 0 and 1 : Protection ia
- Zone 2 : Protection ia or nA
- Zones 20, 21 : Protection ta or ia
- Zone 22 : Protection tc or ia

Wiring



- ▼ Shielded PVC 6-wire cable

- Length 12 m
- External diameter 6 mm

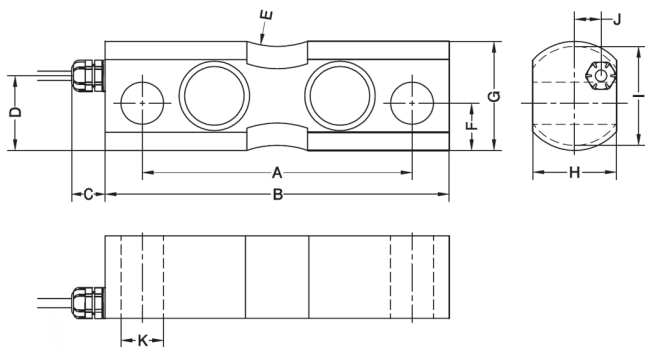
Technical Data

Features

Type	Available Models						
DSL	5 t	10 t	20 t	30 t	50 t	75 t	100 t
Accuracy class	C3		NT				
Max. number of intervals	nLC	3000					
Temperature compensation	-10° .. +40° C						
Temperature range	-30° .. +70° C						
	-20° .. +60° C (in Ex zone)						
Max. deflection. (at nominal capacity)	0,6 ...1 mm						
Nominal sensitivity	Cn	2 mV / V ± 0,1 %					
Nominal supply voltage	10 V						
Max. supply voltage	15 V						
Input impedance	800 Ω ± 30 Ω						
Output impedance	700 Ω ± 3 Ω						
Isolation resistance	> 5000 MΩ						
Protection rating	IP 68						
Load cell packaging	320 x 225 x 150 mm		470 x 240 x 210 mm				
	4 kg		8 kg		15 kg		
Mount packaging	250 x 250 x 200 mm		400 x 320 x 270 mm				
	18 kg		35 kg		85 kg		

* From 5 to 20 t

Technical Data - Load Cell



Mounting

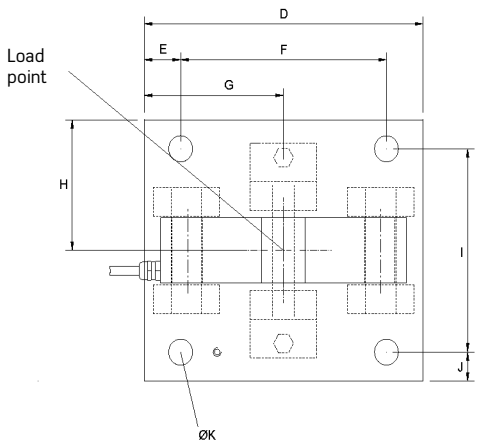
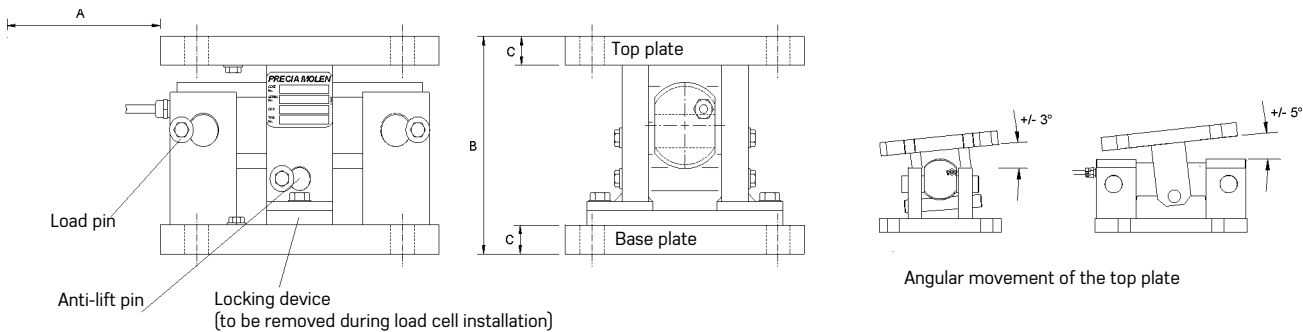
The anti-lift mount is supplied assembled, without load cell, and can be installed directly on the tank to be weighed without using a dummy load cell.

After installation, the load cell is inserted in its mount and the locking device is unlocked to bring the assembly into working position.

This device also allows the load cell to be changed quickly for maintenance purposes.

Cn	A*	B	C	D	E	F	G	H	I	J	K
5...20 t	145	185	16	41	50	25,7	59,5	45	54	14	23
30...50 t	220	285	16	48	50	29,7	74,5	60	65	22	30
75...100 t	260	340	16	66	50	37,2	99,5	80	90	32	50

Technical Data - Load Mount



A : Minimum distance for fitting load cell.
K : 4 holes in the top and base plates.

Note: Complete protection against lifting is only provided when the load cell is fitted.

Cn	A*	B	C	D	E	F	G	H	I	J	K	Max. transverse offset	Max. lifting force	Max. lateral force	Drawing n° zinc-plated stainless steel
5...20 t	250	150	20	210	27,5	155	105	90	140	20	18	±5	9000 kg	4550 kg	7057200 7057203
30...50 t	300	195	25	300	62,5	175	150	110	175	22,5	22	±5	21000 kg	8600 kg	7057201 7057204
75...100 t	350	255	30	370	75	220	185	150	220	40	26	±10	34000 kg	12000 kg	7057202 7057205

* All dimensions are in en mm.

Your Weighing Specialist

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