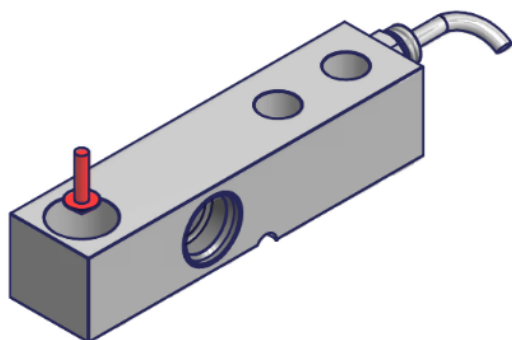


FH

Shear beam load cell

1. Product description

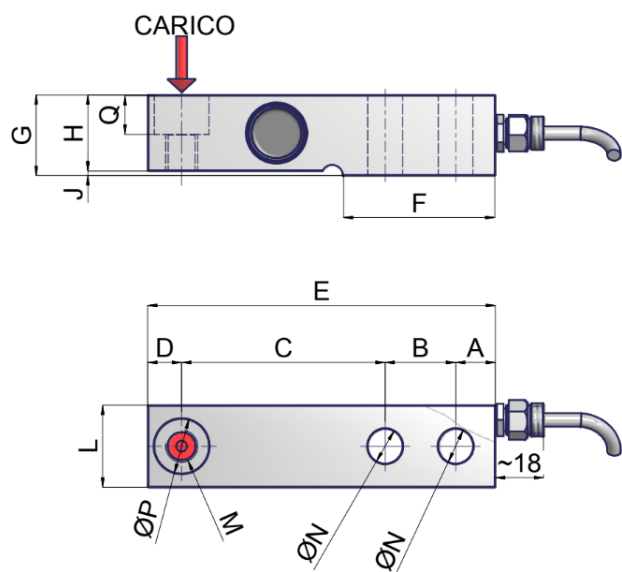


- 1 Capacities from 500 kg to 15000 kg
- 2 Low profile stainless steel construction
- 3 Hermetically sealed,, protection IP68 (EN 60529)
- 4 High accuracy
- 5 Complies with OIML R60 regulations up to 4000 d
- 6 On request ATEX e IECEx version

2. Applications

The shear beam load cells mod. FH are mainly used in the construction of weighing system with low capacity range like: batching system for industrial products; weighing platform; weighing system for hopper, tank, etc.
Available on request different mounting accessories such as: fixing plates, elastomers (anti-vibration mounts) and adjustable support feet.

3. Dimensions (mm.)



Portata kg	Std	OIML	ATEX
500 kg	✓	✓	✓
1000 kg	✓	✓	✓
1760 kg	✓	✓	✓
2200 kg	✓	✓	✓
2500 kg	✓	✓	✓
3000 kg	✓	✓	✓
4400 kg	✓	✓	✓
5000 kg	✓	✓	✓
7500 kg	✓	✓	✓
10000 kg	✓	✓	✓
13000 kg	✓	✓	✓
15000 kg	✓	✓	✓

Portata kg	A	B	C	D	E	F	G	H	J	L	M	N	P	Q
500 - 1000 - 1760 kg	14,90	26,40	76,20	12,70	130,20	57,15	30,15	28,45	1,70	30,70	M12 x 1,75	13,00	20,50	14,70
2200 - 2500 - 3000 kg	19,05	38,10	95,25	19,10	171,50	76,20	36,50	34,00	2,50	36,80	M20 x 2,50	20,00	30,20	17,00
4400 - 5000 kg	19,05	38,10	95,25	19,10	171,50	76,20	42,90	40,40	2,50	42,90	M20 x 2,50	20,00	30,20	20,20
7500 - 10000 kg	25,40	82,60	139,70	31,70	279,4	144,70	65,00	61,00	4,00	58,00	31,80	27,00	51,20	20,70
13000 kg	31,70	88,90	158,80	38,10	317,5	158,80	73,00	68,00	5,00	64,00	38,10	33,33	58,40	25,40
15000 kg	31,70	88,90	158,80	38,10	317,5	158,80	73,00	68,00	5,00	69,00	38,10	33,33	58,40	25,40

FH

Shear beam load cell

4. Product features

Accuracy class	Standard	OIML C3	OIML C4
Capacities fs (E _{max})	500÷15000 kg	500÷15000 kg	500÷2500 kg
Rated output (C _n)	2 mV/V ± 0,1%	2 mV/V ± 0,1%	2 mV/V ± 0,1%
Y = E _{max} /V _{min}	//	12000 (500÷2500) 9000 (3000÷15000)	16000
Nominal excitation range	5 ÷ 10V	5 ÷ 10V	5 ÷ 10V
Maximum excitation	15V	15V	15V
Zero balance output	± 0,02 mV/V	± 0,02 mV/V	± 0,02 mV/V
Input resistance	400 ± 25 Ω	400 ± 25 Ω	400 ± 25 Ω
Output resistance	350 ± 2 Ω	350 ± 2 Ω	350 ± 2 Ω
Insulation resistance	> 5 GΩ	> 5 GΩ	> 5 GΩ
Combined error	<± 0,025% fs	<± 0,022% fs	<± 0,018% fs
Non repeatability	<± 0,010% fs	<± 0,008% fs	<± 0,007% fs
Creep 30 min.	<± 0,025% fs	<± 0,024% fs	<± 0,018% fs
Temperature effect on zero balance (5°C)	<± 0,02% fs	<± 0,018% fs	<± 0,010% fs
Temperature effect on rated output (5°C)	<± 0,008% fs	<± 0,003% fs	<± 0,0025% fs
Compensated temperature range	-10°C ÷ +40°C	-10°C ÷ +40°C	-10°C ÷ +40°C
Operating temperature range	-15°C ÷ +70°C	-15°C ÷ +70°C	-15°C ÷ +70°C
Maximum safe load	150% fs	150% fs	150% fs
Ultimate load	>300% fs	>300% fs	>300% fs
Protection class (EN60529)	IP68	IP68	IP68
Material	Stainless steel	Stainless steel	Stainless steel
Displacement at nominal load	0,30 ÷ 0,90 mm	0,30 ÷ 0,90 mm	0,30 ÷ 0,90 mm
Fixing screws tightening torque	(M12) 50 Nm - (M18) 130 Nm (M24) 230 Nm	(M12) 50 Nm - (M18) 130 Nm (M24) 230 Nm	(M12) 50 Nm - (M18) 130 Nm (M24) 230 Nm
Weight	~ 0,8 ÷ 6 kg	~ 0,8 ÷ 6 kg	~ 0,8 ÷ 6 kg
Cable lenght	5m - 6 x 0,14 mm ² / 0.35 mm ²	5m - 6 x 0,14 mm ² / 0.35 mm ²	5m - 6 x 0,14 mm ² / 0.35 mm ²
OIML R60 test certificate number	//	E - 00.02.C06	E - 00.02.C06

5. Wire diagram

