



## N SL S-beam Loadcell

### Description

- Capacity from 25 kg to 2500 kg
- special steel
- Combined error =  $\pm 0.02\%$  (0.017% c4)
- Protection class ip67



### Technical data

CAPACITY	kg	ACCURACY CLASS		IECEx Ex	EAC	NET WEIGHT OF LOAD CELL (kg)	CODE
		C3	C4				
25		-	-	•	•	0.4	SL25
100		•	•	•	•	0.6	SL100
200		•	•	•	•	0.6	SL200
300		•	•	•	•	0.6	SL300
500		•	•	•	•	0.7	SL500
1000		•	•	•	•	0.9	SL1000
2500		•	•	•	•	1.6	SL2500

ON REQUEST

### Certifications

- OIML R60 C3
- CERTIFICATIONS ON REQUEST
- ATEX II 1GD (zone 0-1-2-20-21-22)
- IECEx (zone 0-1-2-20-21-22)
- OIML R60 C4
- Complies with the Eurasian Custom Union regulations (Russia, Belarus, Kazakhstan)

### Complementary accessories



DESCRIPTION

Special steel ball-and-socket joint with nut.

Dimensions:

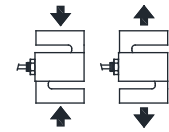
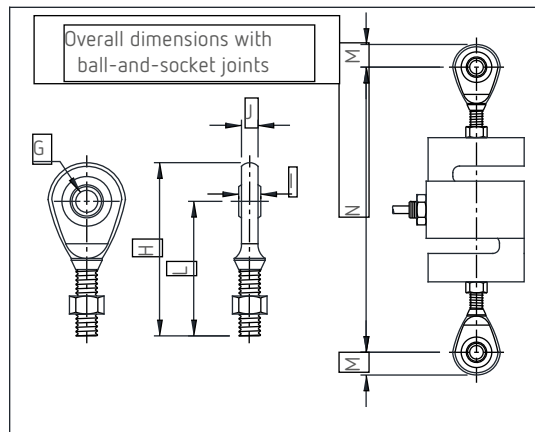
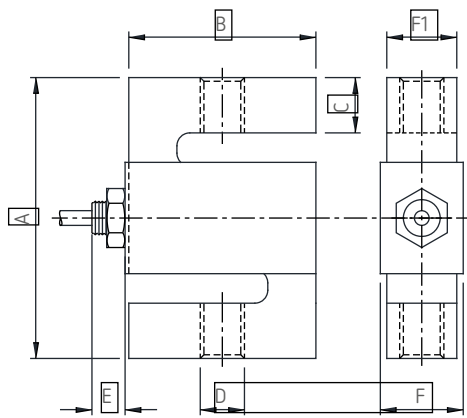
M8x1.25  
M10x1.5  
M12x1.75  
M20x1.5

Load cell capacity:

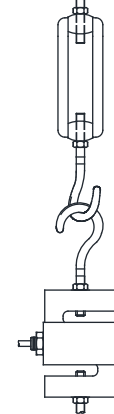
25 kg EM8DADO  
100 kg EM10DADO  
200-1000 kg EM12DADO  
2500 kg EM20DADO

CODE

**DIMENSIONS (mm)**



Example of application on the tension bar mechanical scale



	A	B	C	D	E	F	F1	G	H	I	J	L	M	N (≈)
25 kg	76.2	50.8	15.7	M8x1.25	10	16.7	12.7	Ø8	54	8	6.5	42.5	11.5	129
100 kg	76.2	50.8	15.5	M10x1.5	9	22.5	19	Ø10	62.5	9	7.5	48.5	14	142
200 kg (a)			15 (a)		8									
300 kg (b)	76.2	50.8	14.5 (b)	M12x1.75	9	22.5	19	Ø12	71	10	8.5	54.5	16.5	154
500 kg (c)			13.5 (c)		9									
1000 kg	76.2	50.8	12.5	M12x1.75	10	29	25.4	Ø12	71	10	8.5	54.5	16.5	159
2500 kg	101.6	76.2	20	M20x1.5	6	29	25.4	Ø20	104.5	16	13.5	77.5	27	217

**Technical features**

Material	Special steel		
OIML R60 Accuracy class • Verification intervals	-	C3 • 3000	C4 • 4000
Nominal load (E max)	25 kg	100 - 200 - 300 kg 500 - 1000 - 2500 kg	100 - 200 - 300 kg 500 - 1000 - 2500 kg
Minimum verification interval (V min)	-	E max / 10000 E max / 15000	E max / 20000
Combined error	±±0.02%	±±0.02%	±±0.017%
Protection class	IP67		
Rated output	2 mV/V ±0.2%	Input resistance	350 Ω ±3.5
Temperature effect on zero	0.0015% °C	Output resistance	350 Ω ±3.5
Temperature effect on span	0.0017% °C	Zero balance	±1%
Compensated temperature range	-10 °C / +40 °C	Insulation resistance	>5000 MΩ
Operating temperature range	-35 °C / +65 °C	Safe overload (% of full scale)	150%
Creep at nominal load in 30 minutes	0.03%	Ultimate overload (% of full scale)	300%
Max supply voltage without damage	18 V	Deflection at nominal load	0.4 mm

**Electrical connections**

Cable length            5 m (25 - 300 kg); 10 m (500 - 2500 kg)  
 Cable diameter        5 mm  
 Cores                    4 x 0.24 mm<sup>2</sup>

