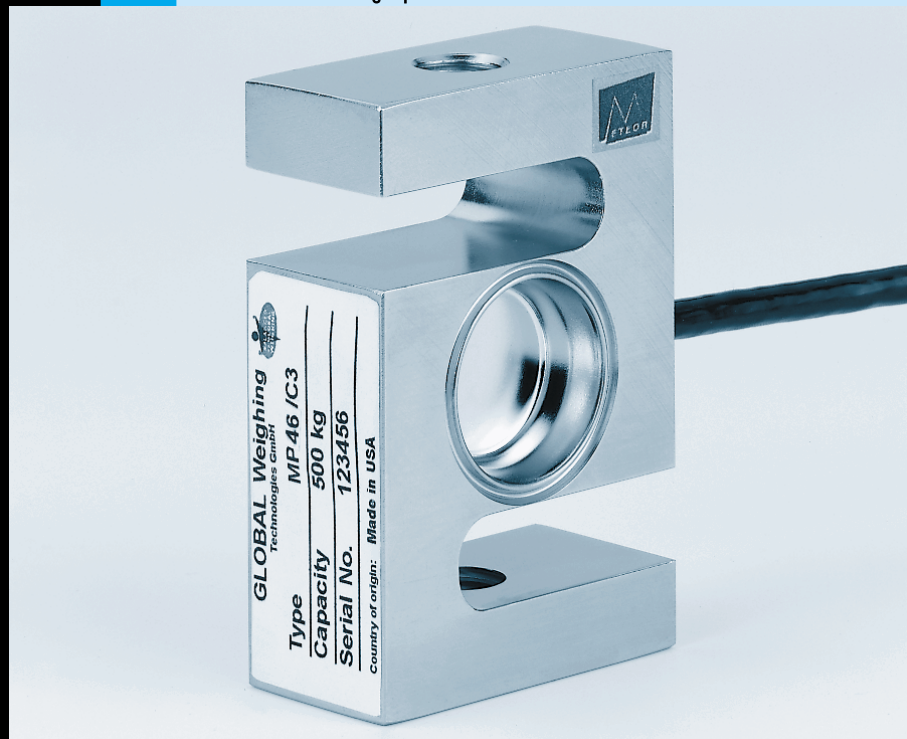


# MP 46

## S - TYPE LOAD CELL 250 kg... 5 t Type N/C3



●●● sartorius group



- High quality alloy steel
- Aluminized coated finish for outstanding corrosion resistance
- Hermetically welded seal (IP67)
- Approved to OIML R60

### APPLICATIONS

- Mechanical scale conversions
- Tank & Hopper scales
- Tension & compression measurement

### Technical Data

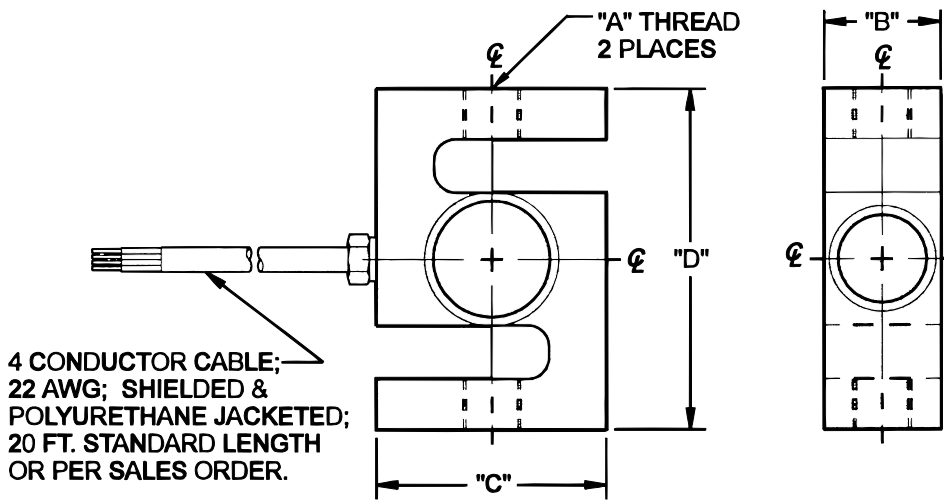
	N	C3
Accuracy class	0.03%	0.025%
Minimum dead load	$E_{min}$	$0\% E_{max}$
Rated capacity	$E_{max}$	s.table
Safe overload	$E_U$	$150\% E_{max}$
Rated output	$C_n$	$2mV/V$
Tolerance on rated output	$d_c$	$\pm 0.25\% C_n$
Tolerance on zero signal	$S_o$	$\pm 1\% C_n$
Repeatability	$\epsilon_r$	$< 0.012\% C_n$
Creep, during 30 min	$d_{cr}$	$< 0.017\% C_n$
Temperature effect on zero	$TK_0$	$< 0.017\% C_n/10K$
Temperature effect on output	$TK_c$	$< 0.011\% C_n/10K$
Input impedance	$R_{LC}$	$400\Omega \pm 50\Omega$
Output impedance	$R_O$	$352\Omega \pm 3\Omega$
Insulation impedance	$R_{IS}$	$> 1000 \times 10^6\Omega$
Recommended supply voltage	$B_u$	$10V$
Max. supply voltage	$U_{max}$	$15V$
Nominal ambient temp. range	$B_T$	$-10...+40^\circ C$
Usable ambient temp. range	$B_{TU}$	$-20...+65^\circ C$
Cable	-	6 m, 4 wires with screen
Protection class	-	IP 67

- Temperature effect on sensitivity and combined error (accuracy class) are combined in such a way that the load cells meet the tolerance envelope of the OIML recommendations R60.
- When selecting load cells for a particular environment, the IP rating should only be used as a guide. Care should be given to the design of the weighing product to protect the load cell.
- The correct mounting of the load cell is essential to obtain optimum performance.

Definitions according to VDI / VDE 2637

# MP 46

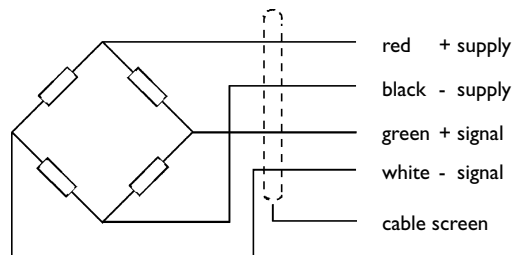
**DIMENSIONS** all in mm



Capacity	A	B	C	D	Deflection	Weight
250kg - 500kg	M12x1.75	24.6	50.5	75.4	0.25	1.5kg
1t, 2t	M20x1.5	24.6	50.5	75.4	0.25	1.5kg
3t - 5t	M20x1.5	24.6	88.9	120.6	0.25	2.5kg

**Type and  
Order Code**

Type and Order Code	Max. capacity	2 mV/V
MP 46/27 N    MP 46/27 C3	250 kg	
MP 46/52 N    MP 46/52 C3	500 kg	
MP 46/13 N    MP 46/13 C3	1000 kg	
MP 46/23 N    MP 46/23 C3	2000 kg	
MP 46/33 N    MP 46/33 C3	3000 kg	
MP 46/53 N    MP 46/53 C3	5000 kg	



The technical data given here serve only as a product description and must not be interpreted as guaranteed characteristics in the legal sense.

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