Characteristics

- Full load output:	Type F: 1,0 mV/V nominal (@10000 psi)
	Type S: 20,0 mV/V nominal (@10000 psi)
- Zero load output:	<±5% of range
- Voltage supply:	10 VDC
- Accuracy:	<0,25% of range
- Terminal resistance:	350 Ω / 2100 Ω (nominal)
- Temperature range:	-30...+70 °C (operating)
- Insulation resistance:	>5000 MΩ (100 VDC)
- Safe overload:	200% of range
- Protection:	IP65
- Cable length:	standard 3 m

Technical data

Input		
Strain:	tensile, compressive	
Deflection:	<0,5 mm	
Output		
Full load:	Type F: 1,0 mV/V @ 10000 psi Type S: 20,0 mV/V @ 10000 psi	
Zero load:	<±5,0 % of range	
Resistance:	Type F: 350 Ω / Type S: 2100 Ω	
Accuracy		
Combined error:	<0,25 % of range	
Repeatability:	<0,04 % of range	
Temperature coefficient:		
of span:	Type F: <0,005% of range / °C	Type S: <0,01% of range / °C
of zero:	<0,010% of range / °C	
Supply		
Voltage:	10 VDC standard value (maximum: 15 VDC)	
Resistance:	Type F: 350 Ω / Type S: 2100 Ω	
Insulation resistance:	>5000 MΩ at 100 VDC	
Ambient conditions		
Temperature:	operation range:	0...+65°C (PUR cable) -30...+70 °C (PTFE cable)
	compensated range:	-30...+70 °C
	(for more details about this see page 2)	

Applications

A cost effective solution for high capacity weighing applications such as vessels, silos, bridges, vehicles. The sensor reacts on tensile and compressive strain, has a robust construction and is simple to install.




Photo: Ernst Rose @ pixelio.de

Technical data (continued)

Mechanics

Dimensions:	see page below
Safe overload:	200% of nominal load
Protection:	IP 65
Connection:	PUR (standard) 3 m cable, shielded, 4-wire PTFE 3 m cable, shielded, 4-wire
Supplied accessories:	2 mounting blocks (to weld on structure) 2 cap head bolts (to tighten template or sensor) 1 template (for mounting blocks)

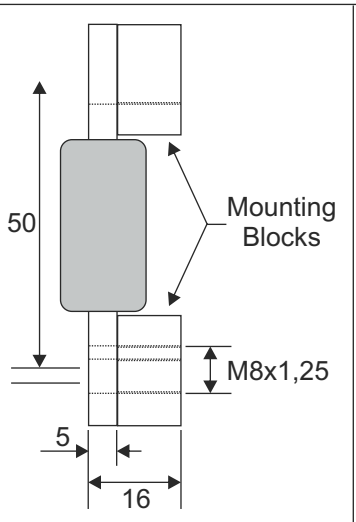
Order number

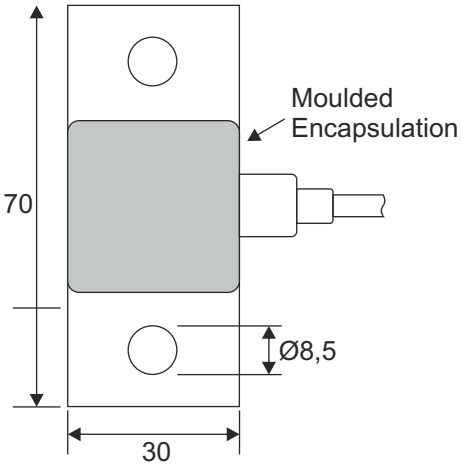
S	M	X	X	X	X	X	X	-	X	X	X

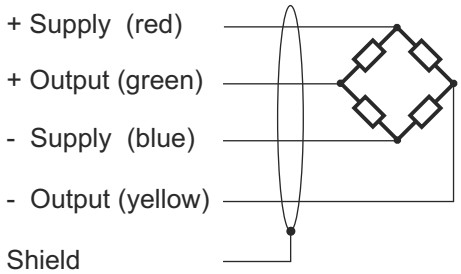
Output:	1 mV/V @ 10000 psi	0
	20 mV/V @ 10000 psi	1
Temperature range:	0...+65 °C (PUR cablel)	0
	-30...+70 °C (PTFE cable)	1
Connection cable:	PUR, 3 m, 4-wire	0
	PTFE, 3 m, 4-wire	1
Temperature compensation:	standard factory compensation[1)]	0
	factory compensation construction (on request)[1)]	1
Other:	special model	0

1) The compensated temperature range is only valid for a construction which matches the set-up during calibration in factory. In the field changes on output signal (without having any changes in load) are mostly caused by a deflection of the construction on which the Bolt-on sensor is mounted. The deflection of the construction is the result of changes in temperature (ambient, construction).
(A possible compensation can be done only when a piece of the construction is available for the calibration in factory.)

Dimensions (in mm), electrical connection







Subject to change, version 40-829