



Main features

- Fully welded version
- Robust stainless steel housing
- High overpressure resistance
- Excellent long term stability

Applications

- Hydraulic

Main characteristics

Measuring range	0 ... 60 bar up to 0 ... 1600 bar
Long term stability	≤ ± 0.1% FS / Year
Accuracy (20 °C) <small>(Linearity, hysteresis, repeatability, error of span)</small>	≤ ± 0.5% FS, 0.3% FS

Technical specifications

Measuring principle	Resistive thin film
Measuring ranges	0 ... 60 bar up to 0 ... 1600 bar
Type of pressure	Relative
Accuracy (20 °C) <small>(Linearity, hysteresis, repeatability, error of span)</small>	≤ ± 0.5% FS, 0.3% FS
Error of zero point	
4...20 mA	≤ ± 1% FS
0...10 V	≤ ± 0.2% FS
Zero thermal drift	≤ ± 0.3% FS/10 K
Span thermal drift	≤ ± 0.3% FS/10 K
Long term stability	≤ ± 0.1% FS / Year
Response time (10 ... 90%)	≤ 1 ms
Process connections	See page 3

Environment

Temperature	
Storage	-40 ... + 85°C
Medium	-25 ... + 85°C
Ambient	-25 ... + 85°C

Protection rating	IP67
Vibration IEC60068-2-6	1.5 mm p-p (10 – 57 Hz), 10 g (58 Hz – 2 KHz) 10 cycles within 2.5 h per axis
Shock IEC60068-2-27	50 g/11 ms 100 g/6 ms 10 x Imp. per Axis and direction
Bump IEC60068-2-27	100 g/2 ms 4000 x Imp. per Axis and direction
Random IEC60068-2-64	0.1 g ² /Hz (20 Hz – 1 KHz) 30 min per axis (>10 g RMS)

Electrical specification

Output signal / Power supply	4 ... 20 mA / 10 ... 33 VDC 0...10 V / 14 ... 33 VDC
Load impedance	
Current output	$R_{\Omega} = (U_{\text{supply}} - 10 \text{ V}) / 20 \text{ mA}$
Voltage output	> 5 K Ω
Insulation resistance	>100 M Ω at 250 VDC
Electrical connections	See page 3

Material

Process connection	SS 1.4301 AISI 304
Housing	SS 1.4301 AISI 304
Diaphragm	SS 1.4542 AISI 630
Sealing	NBR

Approvals

CE conformity	EMC directive 2004/108/CE in accordance with EN61000-6-2, EN 61000-6-3
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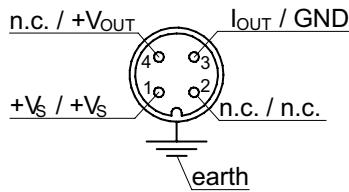
Measuring ranges and overpressure safety

	Pressure in bar							
Pressure range	0 ... 60	0 ... 100	0 ... 160	0 ... 250	0 ... 400	0 ... 600	0 ... 1000	0 ... 1600
Over pressure	120	200	320	500	800	1200	2000	3200
Burst pressure	480	800	1280	2000	3200	4000	4000	4000

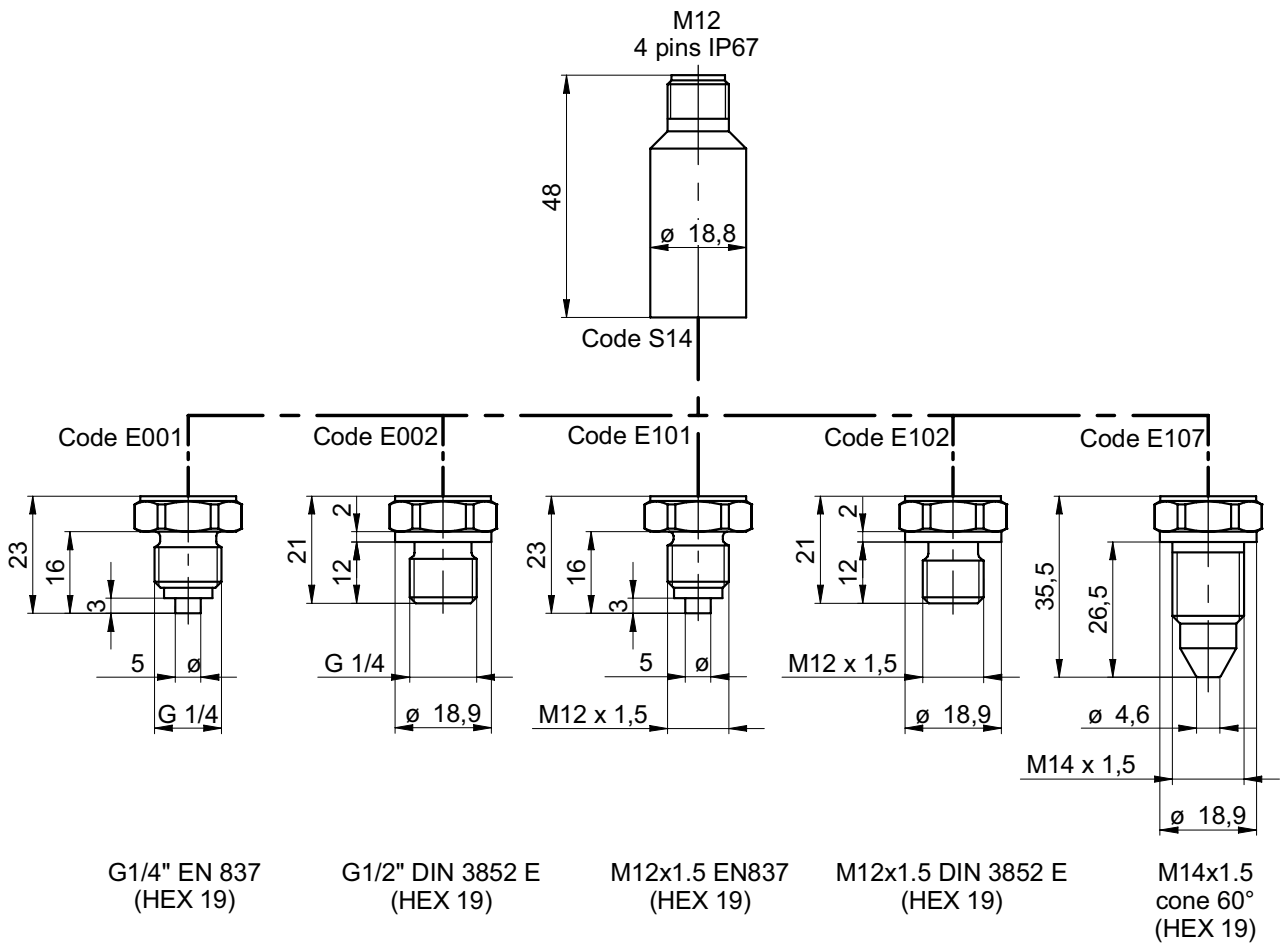
Electrical connections

Signal at 4...20 mA / Signal at 0...10V

M12
4-pins



Dimensions (mm)



Ordering details PDRx

	PDR	x	xxx	xxx	x	xxx	xx
Model							
Pressure transmitter	PDR						
Output signal							
4 ... 20 mA		B					
0 ... 10 V		D					
Process connection							
G $\frac{1}{4}$ EN 837			P ≤ 1000 bar	E001			
G $\frac{1}{4}$ DIN 3852 with sealing			P ≤ 600 bar	E002			
M12x1.5 EN 837			P ≤ 1000 bar	E101			
M12x1.5 DIN 3852 with sealing			P ≤ 600 bar	E102			
M14x1.5 cone 60°			P ≥ 1000 bar	E107			
Output connection							
M12, 4 pins				S14			
Accuracy							
0.5% FS					C		
0.3% FS					B		
Pressure range and unit in bar							
0...60							360
0...100							410
0...160							416
0...250							425
0...400							440
0...600							460
0...1000							510
0...1600							516
Damping element							
Without damping element							
With damping element			In combination with process connection code E001/E002/E101/E102				DE