



Front flush miniature pressure sensor with G1/4 process connection



Pressure sensors



Compact design (SW 19)

High measuring accuracy < ± 0.5 %

Precise repeatability < ± 0.05 %

Robust low-cost solution with welded stainless steel housing









Small and flush-mount

The new miniature pressure sensors of the PL54 series have a flush-mount diaphragm seal with G1/4 thread directly welded to the sensor. This measuring cell guarantees high accuracy in a very compact housing with only 19 mm across flats. In addition, the sensors feature a particularly cost-optimised price-performance ratio.

Applications

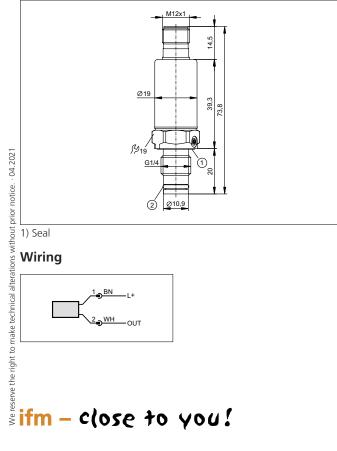
The PL54 sensors are especially used for pressure measurement in applications where flush mounting is required. This is usually the case with adhesives, glues, sealants, foams and other viscous media that would cure in dead spaces. The flush connection prevents clogging of the process connection even with contaminated media.

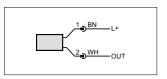


Accessories

Туре	Description	Order no.
Installation		
0000	Seal FKM	E30145
0000 5060 60	Seal EPDM	E30442
	Welding adapters G1/4	E30503
4	Welding aid	E30508
Connection t	echnology	
0.7	M12 socket, 2 m black, PUR cable	EVC001
	M12 socket, 5 m black, PUR cable	EVC002
0	M12 socket, 2 m black, PUR cable	EVC004
	M12 socket, 5 m black, PUR cable	EVC005

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Measuring range relative pressure [bar]	P _{overload} max. (static) [bar]	P _{bursting} min. [bar]	Order no.			
Output function 420 mA						
0400	1000	1,700	PL5400			
0250	625	1,200	PL5401			
0160	400	1,100	PL5412			
0100	250	1000	PL5402			
060	150	900	PL5423			

Common technical data					
Operating voltage	[V DC]	8.536			
Reverse polarity protection		•			
Step response time	[ms]	1			
Accuracy / deviations (in % of the span) Linearity error Linearity Hysteresis Repeatability Long-term stability Temperature coefficients (TE in the temperature range -40 (in % of the span per 10 K) TEMPCO of the span		< ± 0.5 < ± 0.1 (BFSL) / < ± 0.2 (LS) < ± 0.2 < ± 0.05 < ± 0.1 < ± 0.1 (-2590 °C) / < ± 0.2 (-4025 °C) < ± 0.1 (-2590 °C) / < ± 0.2 (-4025 °C)			
Medium temperature	[°C]	-4090			
Protection		IP 67 / IP 69K			
Materials (wetted parts)		NBR, high-grade stainless steel (630 / 1.4542)			