Pressure sensor with LED bar display

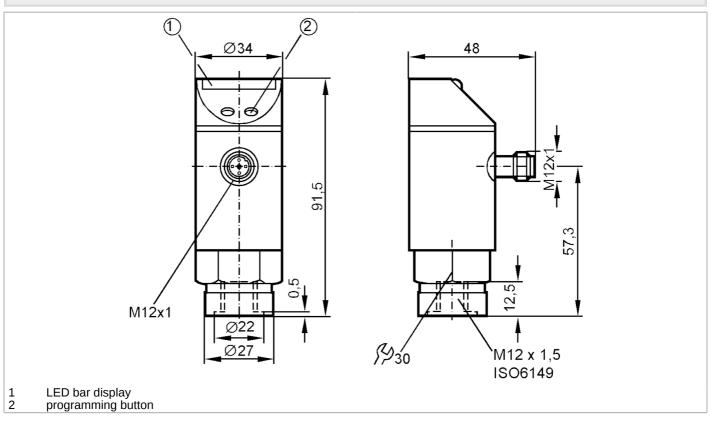
PZ-100MSBM12-HFPKG/US/ /V



Article no longer available - archive entry

Alternative articles: PN5002

When selecting an alternative article and accessories please note that technical data may differ!





Product characteristics			
Number of inputs and outputs		Number of digital outputs: 1	
Measuring range	[MPa]	010	
Process connection		threaded connection M12 x 1,5 internal thread ISO 6149	
Application			
Special feature		Gold-plated contacts	
Application		for industrial applications	
Media		liquids and gases	
Conditionally suitable for		For gaseous media the application is limited to max. 25 bar.	
Medium temperature	[°C]	-2580	
Min. bursting pressure	[MPa]	65	
Pressure rating	[MPa]	30	
Type of pressure		relative pressure	
Electrical data			
Operating voltage	[V]	1830 DC	
Current consumption	[mA]	< 50	
Min. insulation resistance	[ΜΩ]	100; (500 V DC)	
Protection class		III	

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Dower-on delay time S	Reverse polarity protection			yes	
Integrated watchdog Inputs / outputs Number of inputs and outputs Total number of outputs Total number of outputs Total number of outputs Insurance of digital outputs Insurance outputs Insurance outputs Insu	Power-on delay time	[s]		0.2	
Number of inputs and outputs Output Total number of outputs 1 Output signal Electrical design Number of digital outputs 1 Output function Number of digital outputs Output function Max. voltage drop switching of switching output DC Permanent current rating of switching frequency DC Switching frequency Switching Switching Adjustable Accuracy / deviations Switch point accuracy Switch p	Integrated watchdog			yes	
Number of inputs and outputs Output Total number of outputs 1 Output signal Electrical design Number of digital outputs 1 Output function Number of digital outputs Output function Max. voltage drop switching of switching output DC Permanent current rating of switching frequency DC Switching frequency Switching Switching Adjustable Accuracy / deviations Switch point accuracy Switch p	Inputs / outputs				
Total number of outputs Output signal Electrical design Number of digital outputs Output function Max. voltage drop switching of uptup to C Permanent current rating of switching output DC Permanent current rating of switching output DC Switching output DC Switching frequency DC [Hz] Short-circuit protection Type of short-circuit protection Type of short-circuit protection Overload protection Weasuring/setting range Measuring/setting range Measuring range [MPa] Set point SP [MPa] In steps of [MPa] Note on hysteresis Accuracy / deviations Switching signal Signal Signal Switching signal Subject (parameterisable) Accuracy / Base (parameterisable) Accuracy / deviations Switching signal Switching sig	· ·	ts	Nur	nber of digital outputs: 1	
Total number of outputs Output signal Electrical design Number of digital outputs Output function Max. voltage drop switching of uptup to C Permanent current rating of switching output DC Permanent current rating of switching output DC Switching output DC Switching frequency DC [Hz] Short-circuit protection Type of short-circuit protection Type of short-circuit protection Overload protection Weasuring/setting range Measuring/setting range Measuring range [MPa] Set point SP [MPa] In steps of [MPa] Note on hysteresis Accuracy / deviations Switching signal Signal Signal Switching signal Subject (parameterisable) Accuracy / Base (parameterisable) Accuracy / deviations Switching signal Switching sig	Outputs				
Electrical design Number of digital outputs Output function Max. voltage drop switching [V] 2 Output DC Permanent current rating of [mA] 250 Switching output DC Switching frequency DC [Hz] 10 Short-circuit protection Type of short-circuit protection Overload protection Weasuring/setting range Measuring range [MPa] 010 Set point SP [MPa] 0.510 Reset point rP [MPa] 0.39.8 In steps of [MPa] 0.1 Note on hysteresis adjustable Accuracy / deviations Switch point accuracy [% of the final value] Repeatability [% of the final value] Temperature drift per 10 K Software / programming Adjustment of the switch				1	
Number of digital outputs Output function Max. voltage drop switching [V] 2 Permanent current rating of switching output DC Permanent current rating of switching output DC Switching frequency DC [Hz] 10 Short-circuit protection Type of short-circuit protection Type of short-circuit protection Overload protection Weasuring/setting range Measuring range [MPa] 010 Set point SP [MPa] 010 Reset point rP [MPa] 0.398 In steps of [MPa] 0.1 Note on hysteresis Accuracy / deviations Switch point accuracy [% of the final value] Repeatability (% of the final value) Temperature drift per 10 K Software / programming Adjustment of the switch	Output signal			switching signal	
Output function normally open / normally closed; (parameterisable) Max. voltage drop switching [V] 2 Permanent current rating of switching output DC 250 Switching output DC 10 Switching frequency DC [Hz] 10 Short-circuit protection yes Type of short-circuit protection yes Weasuring/setting range Measuring/setting range Measuring range [MPa] 010 Set point SP [MPa] 0.510 Reset point rP [MPa] 0.39.8 In steps of [MPa] 0.1 Note on hysteresis adjustable Accuracy / deviations Switch point accuracy [% of the final value] Repeatability (% of the final value) Temperature drift per 10 K < ± 0.3 Software / programming Adjustment of the switch	Electrical design			PNP	
Max. voltage drop switching output DC Permanent current rating of switching output DC Switching output DC Switching frequency DC [Hz] 10 Short-circuit protection yes Type of short-circuit protection pulsed Overload protection yes Measuring/setting range Measuring/setting range Measuring range [MPa] 010 Set point SP [MPa] 0.510 Reset point rP [MPa] 0.39.8 In steps of [MPa] 01 Note on hysteresis adjustable Accuracy / deviations Switch point accuracy [% of the final value] Repeatability (*±0,25; (with temperature fluctuations < 10 K) Software / programming Adjustment of the switch	Number of digital outputs			1	
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switching output DC Switching frequency DC [Hz] 10 Short-circuit protection yes Type of short-circuit protection pulsed Overload protection yes Measuring/setting range Measuring/setting range Measuring range [MPa] 010 Set point SP [MPa] 0.510 Reset point rP [MPa] 0.39.8 In steps of [MPa] 0.1 Note on hysteresis adjustable Accuracy / deviations Switch point accuracy [% of the final value] Repeatability [% of the final value] Temperature drift per 10 K Software / programming Adjustment of the switch		[V]		2	
Short-circuit protection Type of short-circuit protection Overload protection Overload protection Measuring/setting range Measuring range		[mA]		250	
Type of short-circuit protection Overload protection Measuring/setting range Measuring range Measuring range Measuring range Measuring range [MPa] Set point SP [MPa] Reset point rP [MPa] In steps of [MPa] Note on hysteresis Accuracy / deviations Switch point accuracy [% of the final value] Repeatability [% of the final value] Temperature drift per 10 K Software / programming Adjustment of the switch	Switching frequency DC	[Hz]		10	
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Measuring/setting range Measuring range [MPa] 010 Set point SP [MPa] 0.510 Reset point rP [MPa] 0.39.8 In steps of [MPa] 0.1 Note on hysteresis adjustable Accuracy / deviations Switch point accuracy < ± 2,0				pulsed	
Measuring range [MPa] 010 Set point SP [MPa] 0.510 Reset point rP [MPa] 0.39.8 In steps of [MPa] 0.1 Note on hysteresis adjustable Accuracy / deviations Switch point accuracy < ± 2,0	Overload protection			yes	
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Reset point rP [MPa] 0.39.8 In steps of [MPa] 0.1 Note on hysteresis adjustable Accuracy / deviations Switch point accuracy [% of the final value] Repeatability (% of the final value) Temperature drift per 10 K < ± 0.3 Software / programming Adjustment of the switch	Measuring range	[MPa]		010	
In steps of [MPa] 0.1 Note on hysteresis adjustable Accuracy / deviations Switch point accuracy $\{\pm 2,0\}$ Repeatability $\{\pm 0,25\}$; (with temperature fluctuations < 10 K) Temperature drift per 10 K $\{\pm 0,3\}$ Software / programming Adjustment of the switch	Set point SP	[MPa]		0.510	
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Accuracy / deviations Switch point accuracy $(\%)$ of the final value $(\%)$ (with temperature fluctuations < 10 K) Repeatability $(\%)$ of the final value $(\%)$ Temperature drift per 10 K $(\%)$ Software / programming Adjustment of the switch $(\%)$ programming button	In steps of	[MPa]	0.1		
Switch point accuracy [% of the final value] Repeatability $<\pm 0,25$; (with temperature fluctuations < 10 K) Temperature drift per 10 K $<\pm 0.3$ Software / programming Adjustment of the switch	Note on hysteresis			adjustable	
[% of the final value] Repeatability [% of the final value] Temperature drift per 10 K Software / programming Adjustment of the switch $< \pm 0.25$; (with temperature fluctuations $< 10 \text{ K}$) $< \pm 0.3$	Accuracy / deviations				
Repeatability [% of the final value] Temperature drift per 10 K Software / programming Adjustment of the switch * ± 0,25; (with temperature fluctuations < 10 K) * < ± 0.3			<+2.0		
[% of the final value] Temperature drift per 10 K Software / programming Adjustment of the switch Adjustment of the switch	_	ıl value]		,0	
Temperature drift per 10 K < ± 0.3 Software / programming Adjustment of the switch programming button	-		$< \pm 0.25$; (with temperature fluctuations $< 10 \text{ K}$)		
Software / programming Adjustment of the switch			×+0.3		
Adjustment of the switch programming button				<u> </u>	
· Orogramming number					
point	point		programming button		
Operating conditions	Operating conditions				
Ambient temperature [°C] -2580		[°C]		-2580	
Storage temperature [°C] -40100	Storage temperature				
Protection IP 67	Protection		IP 67		
Tests / approvals	Tests / approvals				
EMC EN 61000-4-2 ESD 4 kV CD / 8 kV AD			EN 61000-4-2 ESD	4 kV CD / 8 kV AD	
EN 61000-4-3 HF radiated 10 V/m			EN 61000-4-3 HF radiated	10 V/m	
EN 61000-4-4 Burst 2 kV			EN 61000-4-4 Burst	2 kV	
EN 61000-4-6 HF conducted 10 V			EN 61000-4-6 HF conducted	10 V	
Shock resistance DIN IEC 68-2-27 50 g (11 ms)					
Vibration resistance DIN IEC 68-2-6 20 g (102000 Hz)	Vibration resistance		DIN IEC 68-2-6	20 g (102000 Hz)	

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Mechanical data				
Dimensions	[mm]	Ø 34 / L = 91.5		
Materials		stainless steel (303/1.4305); PBT; PC; PA; NBR; EPDM/X; FKM		
Materials (wetted parts)		stainless steel (303/1.4305); ceramics; FKM		
Min. pressure cycles		100 million		
Process connection		threaded connection M12 x 1,5 internal thread ISO 6149		

Displays / operating eler	ments	
Display	switching status	LED, yellow
	measured values	10 x LED, green Resolution 10% of the final value
Remarks		
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



