

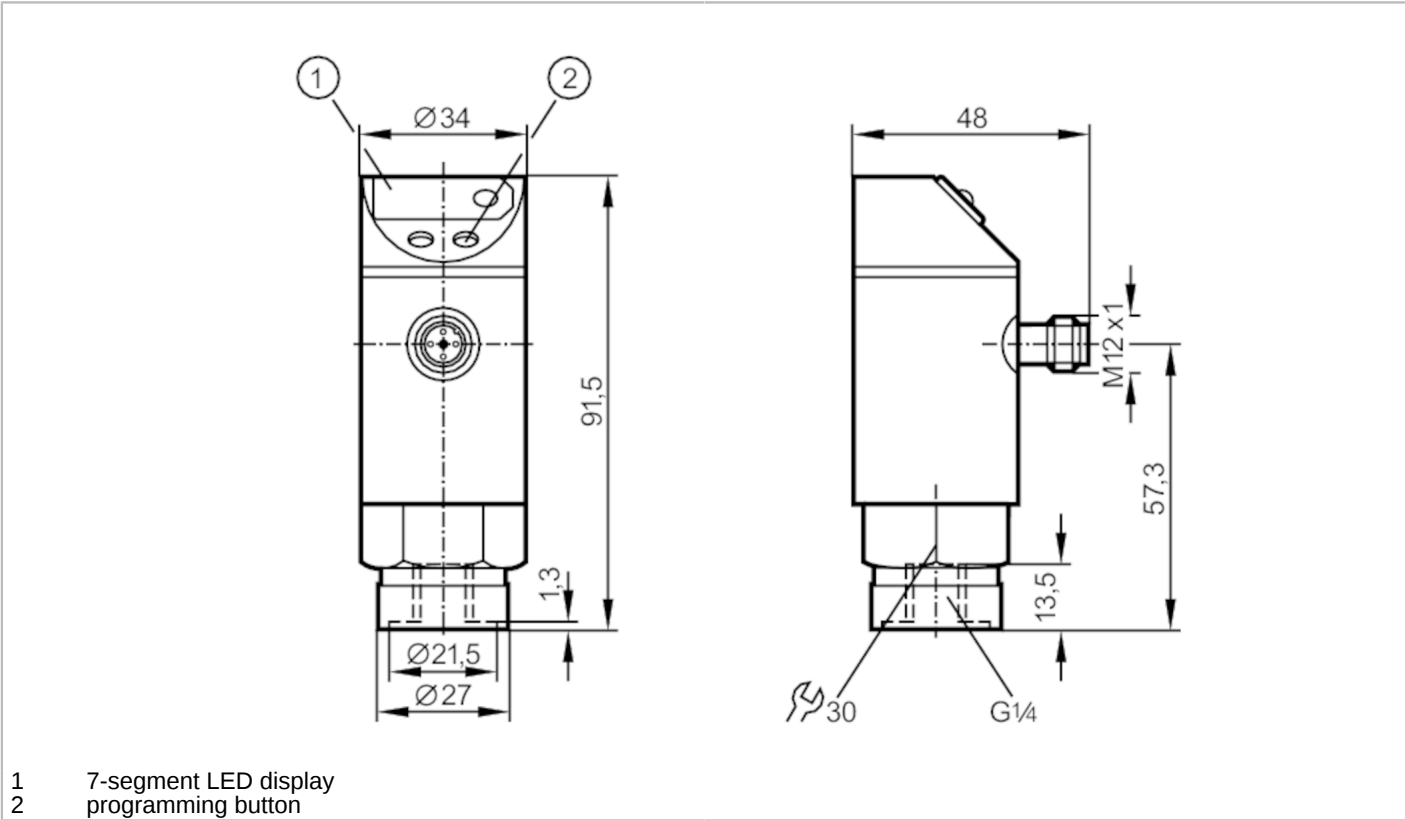


Pressure sensor with display

PN-010-RDR14-KFPKG/US/ IV

Article no longer available - archive entry

Alternative articles: PE3004
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; Number of analogue outputs: 1
Measuring range	[bar]	
Process connection		
		threaded connection G 1/4 internal thread
Application		
Application		for industrial applications
Media		liquids and gases
Medium temperature	[°C]	-25...80
Min. bursting pressure	[bar]	150
Pressure rating	[bar]	50
Electrical data		
Operating voltage		20...30 DC
Current consumption		< 60
Reverse polarity protection		yes
Power-on delay time		0.2
Integrated watchdog		yes



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Inputs / outputs									
Number of inputs and outputs		Number of digital outputs: 1; Number of analogue outputs: 1							
Outputs									
Total number of outputs		2							
Output signal		switching signal; analogue signal; (configurable)							
Electrical design		PNP							
Number of digital outputs		1							
Max. voltage drop switching output DC [V]		2							
Permanent current rating of switching output DC [mA]		250							
Number of analogue outputs		1							
Analogue current output [mA]		4...20							
Max. load [Ω]		500							
Short-circuit protection		yes							
Type of short-circuit protection		pulsed							
Overload protection		yes							
Measuring/setting range									
Measuring range [bar]		0...10							
Set point SP [bar]		0.5...10							
Reset point rP [bar]		0.3...9.8							
In steps of [bar]		0.1							
Accuracy / deviations									
Repeatability [% of the final value]		< ± 0,25; (with temperature fluctuations < 10 K)							
Characteristics deviation [% of the final value]		< ± 2,0							
Temperature drift per 10 K		< ± 0.3							
Response times									
Switching frequency for a given set response time of one output		Response[ms] time (dAP)	15	20	30	50	90	170	330
		Switching [Hz] frequency	50	35	30	20	15	9	5
Response time [ms]		at rectangular pressure characteristic; switch point (SPx) = 70 %; reset point (rPx) = 30 %							
Delay time programmable dS, dr [s]		0, 0,2, 0,4,...3							
Software / programming									
Adjustment of the switch point		programming button							
Operating conditions									
Ambient temperature [°C]		-25...80							
Storage temperature [°C]		-40...100							
Protection		IP 65							

PN8054



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Tests / approvals		
EMC	IEC 801/2 ESD	4 kV CD / 8 kV AD
	IEC 801/3 HF	10 V/m
	IEC 801/4 Burst	2 kV
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
Mechanical data		
Materials	stainless steel (316L/1.4404); PBT; PC; NBR; EPDM/X; FKM; PTFE	
Materials (wetted parts)	stainless steel (316Ti/1.4571); ceramics; FKM	
Min. pressure cycles	100 million	
Process connection	threaded connection G 1/4 internal thread	
Displays / operating elements		
Display	switching status	LED, red
	function display	7-segment LED display
	measured values	7-segment LED display
Remarks		
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A

