

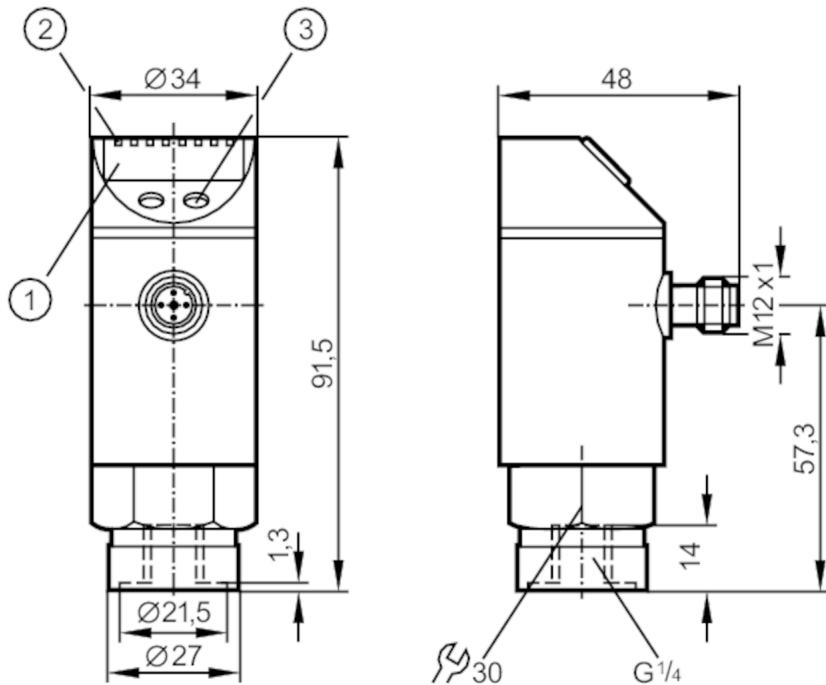
## Pressure sensor with display

PE-2,5-RDR14-QFRKG/US/ /E

phase-out article

Alternative articles: PE2096 or PE2596

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



- 1 alphanumeric display 4-digit  
 2 LEDs Display unit / switching status  
 3 programming button



## Product characteristics

Number of inputs and outputs	Number of digital outputs: 2		
Measuring range	0...2.5 bar	0...2500 mbar	0...36.3 psi
Process connection	threaded connection G 1/4 internal thread		

## Application

Special feature	Gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Cannot be used for	oils		
Medium temperature [°C]		-25...80	
Min. bursting pressure	50 bar	725 psi	5000 kPa
Pressure rating	20 bar	290 psi	2000 kPa
Type of pressure	relative pressure		

## Electrical data

Operating voltage [V]	18...36 DC; (to SELV/PELV)		
Current consumption [mA]	< 50		
Min. insulation resistance [MΩ]	100; (500 V DC)		

# PE7006

## Pressure sensor with display

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Protection class		III		
Reverse polarity protection		yes		
Oversupply protection		yes; (< 40 V)		
Power-on delay time [s]		0.3		
Integrated watchdog		yes		
<b>Inputs / outputs</b>				
Number of inputs and outputs		Number of digital outputs: 2		
<b>Outputs</b>				
Total number of outputs		2		
Output signal		switching signal; IO-Link; (configurable)		
Electrical design		PNP/NPN		
Number of digital outputs		2		
Output function		normally open / normally closed; (parameterisable)		
Max. voltage drop switching output DC [V]		2		
Permanent current rating of switching output DC [mA]		250		
Switching frequency DC [Hz]		< 170		
Short-circuit protection		yes		
Type of short-circuit protection		pulsed		
<b>Measuring/setting range</b>				
Measuring range	0...2.5 bar	0...2500 mbar	0...36.3 psi	0...250 kPa
Set point SP [% of the span]	0.02...2.5 bar	0.4...36.2 psi	2...250 kPa	
Reset point rP [% of the span]	0.01...2.49 bar	0.2...36 psi	1...249 kPa	
In steps of [% of the span]	0.01 bar	0.2 psi	1 kPa	
Factory setting		SP1 = 0.63 bar	rP1 = 0.58 bar	
		SP2 = 1.88 bar	rP2 = 1.83 bar	
<b>Accuracy / deviations</b>				
Switch point accuracy [% of the span]		< ± 0,5		
Repeatability [% of the span]		< ± 0,1; (with temperature fluctuations < 10 K)		
Characteristics deviation [% of the span]		< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)		
Hysteresis deviation [% of the span]		< ± 0,25		
Long-term stability [% of the span]		< ± 0,05; (per 6 months)		
Temperature coefficient zero point [% of the span / 10 K]		0,2; (-20...80 °C)		
Temperature coefficient span [% of the span / 10 K]		0,2; (-20...80 °C)		
<b>Response times</b>				
Delay time programmable dS, dr [s]		0; 0,2...50		

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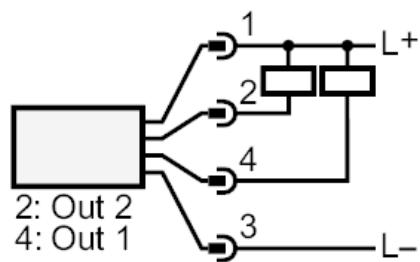
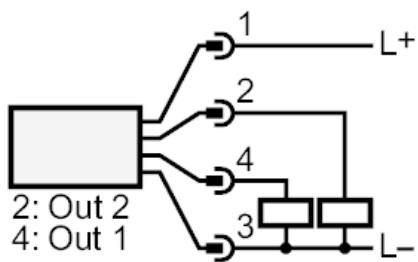
Software / programming		
Parameter setting options	hysteresis / window; normally open / normally closed; diagnostic function; switching logic; switch-on/switch-off delay; Damping; Display unit	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
Profiles	no profile	
SIO mode	yes	
Required master port type	A	
Process data analogue	1	
Process data binary	2	
Min. process cycle time [ms]	2.3	
Supported DeviceIDs		Type of operation
		DeviceID
	default	312
Operating conditions		
Ambient temperature [°C]	-20...80	
Storage temperature [°C]	-40...100	
Protection	IP 67	
Tests / approvals		
EMC	EN 61000-6-2 EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]	237	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight [g]	261.5	
Materials	stainless steel (304/1.4301); stainless steel (316L/1.4404); PC; PBT; PEI; FKM; EPDM/X; PTFE	
Materials (wetted parts)	stainless steel (316L/1.4404); ceramics (99.9% Al <sub>2</sub> O <sub>3</sub> ); sealing of the measuring cell: EPDM	
Min. pressure cycles	100 million	
Process connection	threaded connection G 1/4 internal thread	
Displays / operating elements		
Display	Display unit	3 x LED, green
	switching status	2 x LED, yellow
	function display	alphanumeric display, 4-digit
	measured values	alphanumeric display, 4-digit
Remarks		
Pack quantity	1 pcs.	

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### Electrical connection

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



OUT1  
OUT2

switching output  
switching output  
Diagnostic output