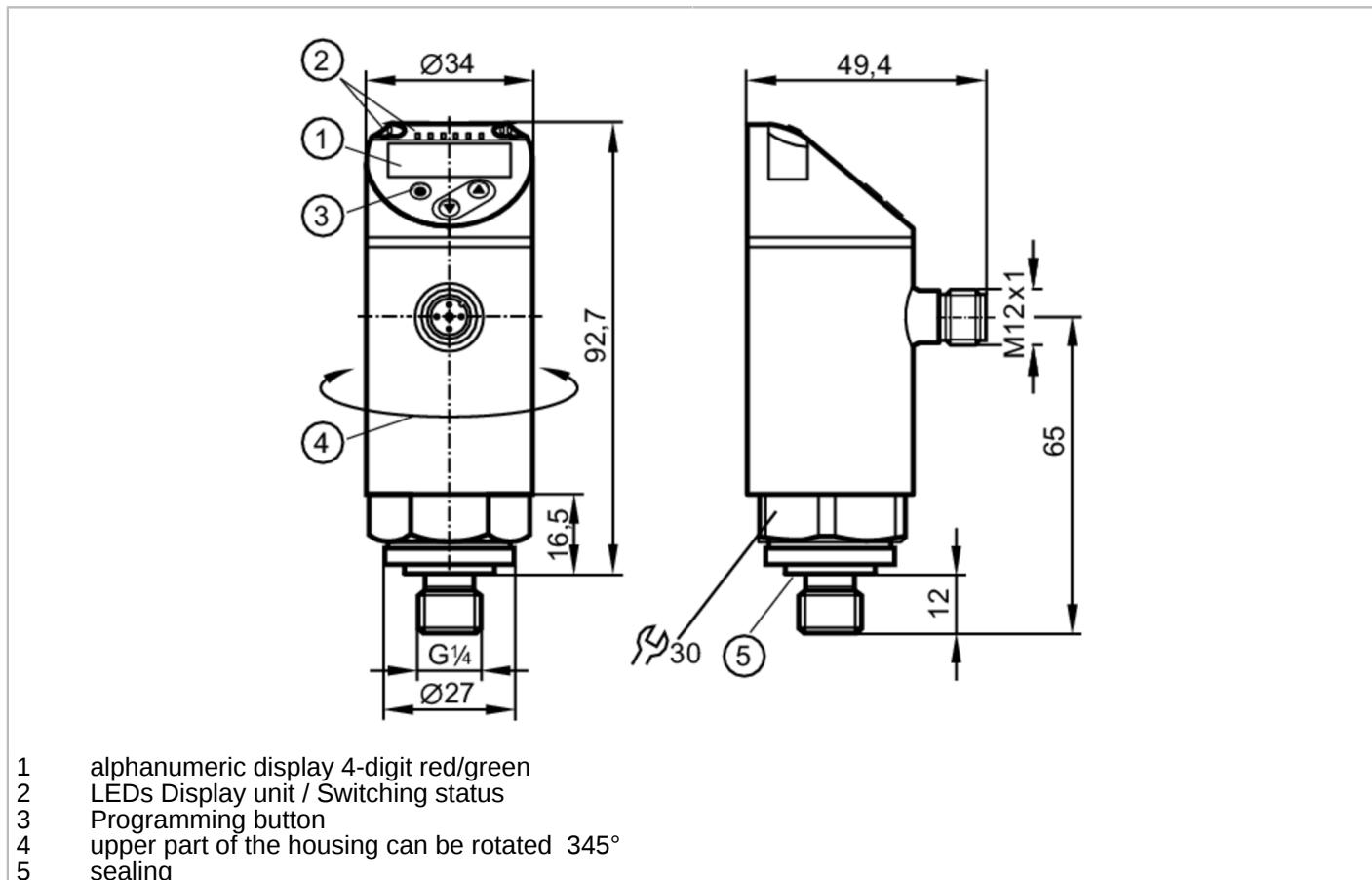


Pressure sensor with display

PN-600-SEG14-MFRKG/US/ /V



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analog outputs: 1		
Measuring range	0...600 bar	0...8700 psi	0...60 MPa
Process connection	threaded connection G 1/4" external thread (DIN EN ISO 1179-2); Internal thread:M5		

Application

System	gold-plated contacts		
Measuring element	metallic thin film cell		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...80		
Min. bursting pressure	2500 bar	36250 psi	250 MPa
Pressure rating	800 bar	11580 psi	80 Mpa
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

PN2560



Pressure sensor with display

PN-600-SEG14-MFRKG/US / V

Electrical data			
Operating voltage	[V]	18...30 DC; (to SELV/PELV)	
Current consumption	[mA]	< 35	
Min. insulation resistance	[MΩ]	100; (500 V DC)	
Protection class		III	
Reverse polarity protection		yes	
Power-on delay time	[s]	0.3	
Integrated watchdog		yes	
Inputs / outputs			
Number of inputs and outputs		Number of digital outputs: 2; Number of analog outputs: 1	
Outputs			
Total number of outputs		2	
Output signal		switching signal; analog signal; IO-Link; (configurable)	
Electrical design		PNP/NPN	
Number of digital outputs		2	
Output function		normally open / closed; (configurable)	
Max. voltage drop switching output DC	[V]	2	
Permanent current rating of switching output DC	[mA]	250	
Switching frequency DC	[Hz]	< 500	
Number of analog outputs		1	
Analog current output	[mA]	4...20; (scalable 1:5)	
Max. load	[Ω]	500	
Analog voltage output	[V]	0...10; (scalable 1:5)	
Min. load resistance	[Ω]	2000	
Short-circuit protection		yes	
Type of short-circuit protection		yes (non-latching)	
Overload protection		yes	
Measuring/setting range			
Measuring range		0...600 bar	0...8700 psi
Analog start point		0...480 bar	0...6960 psi
Analog end point		120...600 bar	1740...8700 psi
Factory setting / CMPT = 2			
Set point SP		4...600 bar	60...8700 psi
Reset point rP		1...597 bar	20...8660 psi
Min. difference between SP and rP		3 bar	40 psi
In steps of		1 bar	20 psi
Status_B High Resolution / CMPT = 3			
Set point SP		4...600 bar	55...8702 psi
Reset point rP		1...597 bar	19...8666 psi
Min. difference between SP and rP		3 bar	37 psi
In steps of		1 bar	1 psi

PN2560



Pressure sensor with display

PN-600-SEG14-MFRKG/US/ /V

Accuracy / deviations		
Notes on the accuracy / deviation	switch point accuracy, linearity error under DNV GL: < ± 1%: < ± 1%	
Switch point accuracy [% of the span]	< ± 0,4; (Turn down 1:1)	
Repeatability [% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)	
Characteristics deviation [% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (Turn down 1:1; BFSL = Best Fit Straight Line; LS = limit value setting)	
Hysteresis deviation [% of the span]	< ± 0,1; (Turn down 1:1)	
Long-term stability [% of the span]	< ± 0,05; (Turn down 1:1; per 6 months)	
Temperature coefficient zero point [% of the span / 10 K]	0,2; (-25...80 °C)	
Temperature coefficient span [% of the span / 10 K]	0,2; (-25...80 °C)	
Reaction times		
Response time [ms]	< 1.5	
Delay time programmable dS, dr [s]	0...50	
Damping process value dAP [s]	0...4	
Damping for the analog output dAA [s]	0...4	
Max. response time analog output [ms]	3	
Software / programming		
Parameter setting options	hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping; Display unit; current/voltage output	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
SIO mode	yes	
Required master port class	A; (wenn PIN 2 nicht verbunden: B)	
Supported DeviceIDs	Type of operation	DeviceID
	Factory setting / CMPT = 2	458
	Status_B High Resolution / CMPT = 3	637
Note	For further information please see the IODD PDF file at "Downloads"	

PN2560



Pressure sensor with display

PN-600-SEG14-MFRKG/US/ /V

Factory setting / CMPT = 2										
Profiles		Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis								
Min. process cycle time [ms]		2.3								
IO-Link resolution pressure [bar]		0.1								
IO-Link process data (cyclical)		<table border="1"> <thead> <tr> <th>Function</th><th>bit length</th></tr> </thead> <tbody> <tr> <td>pressure</td><td>14</td></tr> <tr> <td>binary switching information</td><td>2</td></tr> </tbody> </table>	Function	bit length	pressure	14	binary switching information	2		
Function	bit length									
pressure	14									
binary switching information	2									
IO-Link functions (acyclical)		application specific tag								
Status_B High Resolution / CMPT = 3										
Profiles		Smart Sensor ED2: Digital Measuring Sensor (0x000A), Identification and Diagnosis (0x4000)								
Min. process cycle time [ms]		3								
IO-Link resolution pressure [bar]		0.2								
IO-Link process data (cyclical)		<table border="1"> <thead> <tr> <th>Function</th><th>bit length</th></tr> </thead> <tbody> <tr> <td>pressure</td><td>16</td></tr> <tr> <td>device status</td><td>4</td></tr> <tr> <td>binary switching information</td><td>2</td></tr> </tbody> </table>	Function	bit length	pressure	16	device status	4	binary switching information	2
Function	bit length									
pressure	16									
device status	4									
binary switching information	2									
IO-Link functions (acyclical)		application specific tag								
Operating conditions										
Ambient temperature [°C]		-25...80								
Storage temperature [°C]		-40...100								
Protection		IP 65; IP 67								
Tests / approvals										
EMC		DIN EN 61000-6-2								
		DIN EN 61000-6-3								
Shock resistance		DIN EN 60068-2-27								
Vibration resistance		DIN EN 60068-2-6								
MTTF [years]		129								
UL approval		UL approval number								
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request								
Mechanical data										
Weight [g]		261.5								
Material		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PBT+PC-GF30; PBT-GF20; PC								
Materials (wetted parts)		1.4542 (17-4 PH / 630)								
Min. pressure cycles		100 million								
Tightening torque [Nm]		30...50; (recommended tightening torque; Depends on lubrication, seal and pressure rating)								
Process connection		threaded connection G 1/4 external thread (DIN EN ISO 1179-2); Internal thread:M5								
Process connection sealing		FKM (DIN EN ISO 1179-2)								
Restrictor element integrated		no (can be retrofitted)								
Displays / operating elements										
Display		<table border="1"> <thead> <tr> <th>Display unit</th><th>3 x LED, green (bar, psi, MPa)</th></tr> </thead> <tbody> <tr> <td>Switching status</td><td>2 x LED, yellow</td></tr> <tr> <td>Measured values</td><td>alphanumeric display, red/green 4-digit</td></tr> </tbody> </table>	Display unit	3 x LED, green (bar, psi, MPa)	Switching status	2 x LED, yellow	Measured values	alphanumeric display, red/green 4-digit		
Display unit	3 x LED, green (bar, psi, MPa)									
Switching status	2 x LED, yellow									
Measured values	alphanumeric display, red/green 4-digit									

PN2560



Pressure sensor with display

PN-600-SEG14-MFRKG/US/ /V

Remarks

Pack quantity

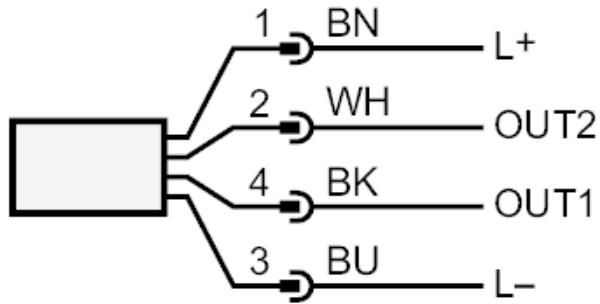
1 pcs.

Electrical connection

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



Connection



OUT1 Switching output

IO-Link

OUT2 Switching output

analog output

Core colors :

BK = black

BN = brown

BU = blue

WH = white