

Alternative article: PP7550 + AC5225

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

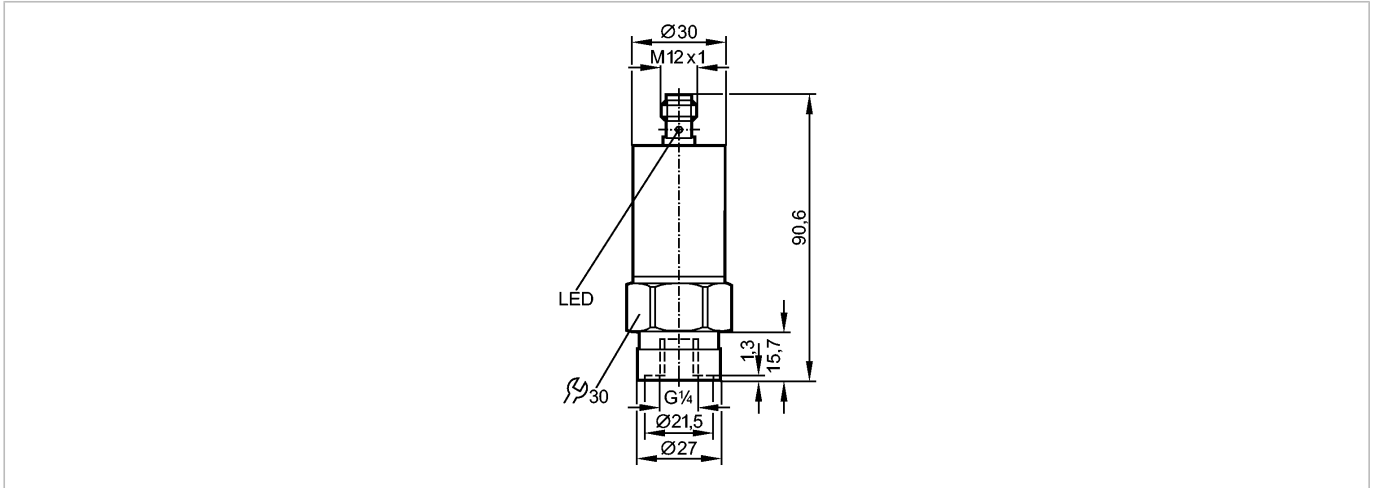
efectorsoo

PPA020



PPA400-SBR14-ASIVG/US/ IV

Pressure sensors



Product characteristics

Electronic pressure sensor

Quick disconnect

Analog value

(16 bit value incl. sign)

AS-i profile S-7.3

Process connection: G 1/4 I

Measuring range: 0...400 bar

Application

Application

Type of pressure: relative pressure
Group 2 fluids according to the Pressure Equipment Directive (PED)
group 1 fluids on request
Use in gases at pressures > 25 bar only after contacting the manufacturer ifm

Pressure rating [bar]

600

Bursting pressure min. [bar]

1000

Medium temperature [°C]

-25...80

Electrical data

Electrical design

AS-i

Operating voltage [V]

18...31.6 DC (AS-i)

Current consumption [mA]

< 25

Insulation resistance [MΩ]

> 100 (500 V DC)

Protection class

III

Reverse polarity protection

yes

Outputs

Overload protection

yes

Measuring / setting range

Measuring range [bar]

0...400

Accuracy / deviations

Accuracy / deviations

(in % of the span)

Characteristics deviation *)

< ± 0.5

Hysteresis

< ± 0.5

Repeatability **)

< ± 0.1

Long-term stability ***)

< ± 0.1

Temperature coefficients (TEMPCO) in the temperature range 0...70° C (in % of the span per 10 K)

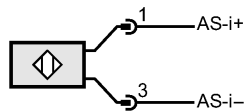
Greatest TEMPCO of the zero point

0.2

PPA020 - Electronic pressure sensor - eclass: 27201302 / 27-20-13-02

Greatest TEMPCO of the span	0.3
Reaction times	
Power-on delay time [s]	0.3
Integrated watchdog	yes
Environment	
Ambient temperature [°C]	-25...70
Storage temperature [°C]	-40...100
Protection	IP 67
Tests / approvals	
Pressure equipment directive	sound engineering practice
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD class B EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 1 kV class A / 2 kV class B EN 55011 (Emission): Level B
Shock resistance	DIN IEC 68-2-27: 50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6: 20 g (10...2000 Hz)
MTTF [Years]	293
Mechanical data	
Process connection	G ¼ I
Materials (wetted parts)	stainless steel (303S22); ceramics; FPM (Viton)
Housing materials	stainless steel (304S15); PA
Min. pressure cycles	100 million
Weight [kg]	0.245
Displays / operating elements	
Display	LED green (operate); red (error)
Electrical connection	
Connection	M12 connector; gold-plated contacts

Wiring



Remarks	
Remarks	*) linearity, incl. hysteresis and repeatability; (limit value setting to DIN 16086) **) with temperature fluctuations < 10 K ***) in % of the span per year
Pack quantity [piece]	1