



## PET-1RB400U2FSXLA

PET

PRESSURE SENSORS

**SICK**  
Sensor Intelligence.



Illustration may differ



## Ordering information

Type	part no.
PET-1RB400U2FSXLA	6078730

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## Detailed technical data

## Features

<b>Medium</b>	Fluids
<b>Pressure type</b>	Gauge pressure
<b>Pressure unit</b>	bar
<b>Measuring range</b>	0 bar ... 400 bar
<b>Overpressure safety</b>	2-fold (3-fold upon request)
<b>Process temperature</b>	-30 °C ... +100 °C
<b>Maximum ohmic load <math>R_A</math></b>	> QA, max / 1 mA [ohm] for current output signal
<b>Output signal</b>	0.5 V ... 4.5 V, 3-conductor
<b>Initialization time</b>	15 ms
<b>Pieces per package</b>	50 pieces

## Mechanics/electronics

<b>Communication interface</b>	-
<b>Process connection</b>	9/16" -18 UNF (SAE J514) <sup>1)</sup>
<b>Wetted parts</b>	Stainless steel Stainless steel 13-8 PH
<b>Pressure port</b>	Standard
<b>Housing material</b>	Stainless steel 316L, PBT GF30
<b>Connection type</b>	For angled plug according to DIN EN 175301-803 A (without mating connector)
<b>Supply voltage</b>	8 V DC ... 30 V DC <sup>2)</sup>
<b>Power consumption</b>	5 mA
<b>Seal</b>	FKM <sup>3)</sup>
<b>Enclosure rating</b>	IP65 (IEC 60529) <sup>4)</sup>
<b>MTTF</b>	> 100 years

<sup>1)</sup> External with O-ring boss (FPM/FKM).<sup>2)</sup> The pressure transmitter must be supplied with power by a limited energy circuit compliant with 9.3 of UL/EN/IEC 601010-1 or LPS to UL/EN/IEC 60950-1 or Class 2 to UL 1310/UL1585 (NEC or CEC). The power supply must be suitable for operation above 2,000 m if the pressure transmitter is used above this altitude.<sup>3)</sup> Only for process connections G 1/4 A according to DIN 3852-E, 7/16"-20 UNF and 9/16"-18 UNF.<sup>4)</sup> The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating.

<b>Protection class</b>	III
<b>Isolation voltage</b>	750 V DC
<b>Oversupply protection</b>	36 V DC
<b>Short-circuit protection</b>	Output Q <sub>A</sub> towards M
<b>Reverse polarity protection</b>	L <sup>+</sup> towards M

1) External with O-ring boss (FPM/FKM).

2) The pressure transmitter must be supplied with power by a limited energy circuit compliant with 9.3 of UL/EN/IEC 601010-1 or LPS to UL/EN/IEC 60950-1 or Class 2 to UL 1310/UL1585 (NEC or CEC). The power supply must be suitable for operation above 2,000 m if the pressure transmitter is used above this altitude.

3) Only for process connections G 1/4 A according to DIN 3852-E, 7/16"-20 UNF and 9/16"-18 UNF.

4) The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating.

## Performance

<b>Non-linearity</b>	≤ ± 0.5 %, of span (best fit straight line, BFSL)
<b>Accuracy</b>	≤ ± 1.2 %, of span (at room temperature)
<b>Adjustment accuracy of zero signal</b>	≤ ± 0.5 % of the span
<b>Response time</b>	< 2 ms
<b>Long-term drift/one-year stability</b>	≤ ± 0.3 % of span (per year)
<b>Rated temperature range</b>	0 °C ... +80 °C
<b>Service life</b>	Minimum 10 Mio. load cycles
<b>Temperature error</b>	≤ ± 1.5 % of the span
<b>Reference conditions</b>	According to IEC 61298-1

## Ambient data

<b>Ambient temperature, operation</b>	-30 °C ... +100 °C
<b>Storage temperature</b>	-30 °C ... +100 °C
<b>Shock load</b>	40 g (6 ms) according to IEC 60068-2-27 (mechanical shock)
<b>Vibration load</b>	20 g (20 Hz ... 2000 Hz, 120 min) according to IEC 60068-2-6 (vibration at resonance)

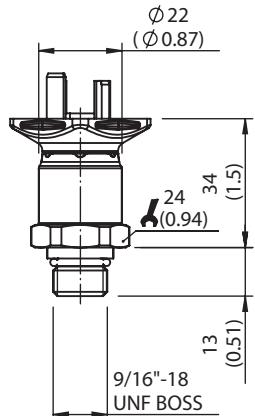
## Classifications

<b>ECLASS 5.0</b>	27200614
<b>ECLASS 5.1.4</b>	27200614
<b>ECLASS 6.0</b>	27200614
<b>ECLASS 6.2</b>	27200614
<b>ECLASS 7.0</b>	27200614
<b>ECLASS 8.0</b>	27200614
<b>ECLASS 8.1</b>	27200614
<b>ECLASS 9.0</b>	27200614
<b>ECLASS 10.0</b>	27200614
<b>ECLASS 11.0</b>	27200614
<b>ECLASS 12.0</b>	27200614
<b>ETIM 5.0</b>	EC011478
<b>ETIM 6.0</b>	EC011478
<b>ETIM 7.0</b>	EC011478
<b>ETIM 8.0</b>	EC011478
<b>UNSPSC 16.0901</b>	41112410

## Certificates

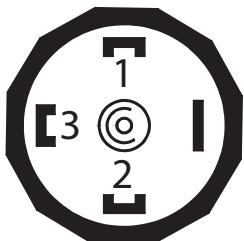
EU declaration of conformity	✓
UK declaration of conformity	✓
China-RoHS	✓

Dimensional drawing Process connection 9/16"-18 UNF SAE #4 J514 male with O-ring Boss (FKM) with connection for L-connector according to DIN EN 175301-803 A



Dimensions in mm (inch)

Connection type Connection for angled plug according to DIN EN 175301-803 A



Assignment	L +	M	Q <sub>A</sub>
2-wire	1	2	-
3-wire	1	2	3

① L<sup>+</sup>: Positive supply connection

② M: Negative supply connection

③ Q<sub>A</sub>: Analog output

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

**For us, that is "Sensor Intelligence."**

## WORLDWIDE PRESENCE:

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