



PET-1RB400U2FSXLA

PET

PRESSURE SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
PET-1RB400U2FSXLA	6078730

Other models and accessories → www.sick.com/PET

Detailed technical data

Features

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

Mechanics/electronics

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

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 ¼ 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.

Protection class	III
Isolation voltage	750 V DC
Overvoltage protection	36 V DC
Short-circuit protection	Output Q _A towards M
Reverse polarity protection	L ⁺ towards M

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Performance

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

Ambient data

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

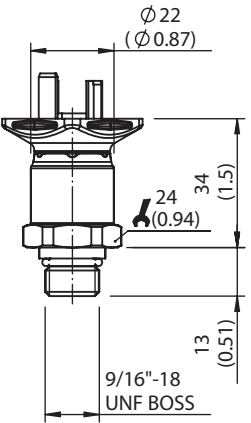
Classifications

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

Certificates

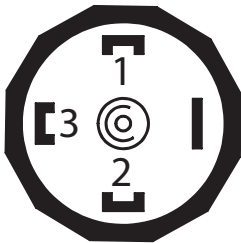
EU declaration of conformity	✓
UK declaration of conformity	✓
China-RoHS	✓

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 _A
2-wire	1	2	-
3-wire	1	2	3

- ① L⁺: Positive supply connection
② M: Negative supply connection
③ Q_A: Analog output

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

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