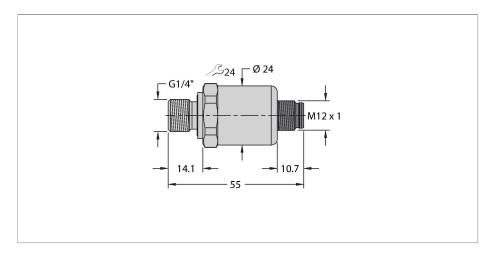


PT60R-1004-IX-H1143 Pressure Transmitter – With Current Output (2-Wire)



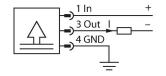
Technical data

Туре	PT60R-1004-IX-H1143		
ID	100010548		
Pressure range			
Pressure type	Relative pressure		
Pressure range	060 bar		
	0870.23 psi		
	06 MPa		
Admissible overpressure	≤ 180 bar		
Burst pressure	≥ 180 bar		
Response time	< 2 ms, typ. 1 ms		
Long-term stability	0.25 % FS, according to IEC EN 60770-1		
Power supply			
Operating voltage	1030 VDC		
Current consumption	≤ 23 mA		
Short-circuit/reverse polarity protection	yes / yes		
Protection type and class	IP67 / III		
Insulation voltage	750 VDC		
Outputs			
Output 1	Analog output		
Output function	Analog output current		
Analog output			
Current output	420 mA		
Load	≤ (Supply voltage -10)/20 kΩ		
Resolution	<± 0.1 % FS		
Accuracy LHR	±0.3 % FS (typical; max. ±0.5 % FS)		

Features

- Ceramic measuring cell
- ■Compact and robust design
- Excellent EMC properties
- Pressure range 0...60 bar rel.
- ■10...30 VDC
- ■Analog output 4...20 mA
- Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring
- Connector device, M12 × 1
- ■ATEX, IECEx
- Category II 1/2 GD, Ex zone 0

Wiring diagram





Functional principle

The pressure sensors in the PT...-1000 product series operate with a ceramic measuring cell in various pressure ranges of up to -1...60 bar in 2-, 3- or even 4-wire technology. Depending on the sensor variant, the processed signal is available as an analog output signal (4...20 mA, 0...10 V, 0...5 V, 1... 6 V, ratiometric) or as a digital IO-Link process parameter. The IO-Link sensor variants also have two independently configurable switching outputs.

In addition to the standard variants, there are special sensors for uses such as ATEX areas or for oxygen applications.

A wide range of process connections and electrical connections offer a high degree of flexibility in a wide range of applications.



Technical data

Medium temperature Temperature coefficient Environmental conditions Ambient temperature -25+85 °C Storage temperature -50+100 °C Vibration resistance Vibration resistance Vibration resistance 20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6 Shock resistance 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27 Mechanical data Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Ceramic Al-O3 Sealing material FPM spez. Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxillary power 24 VDC Tests/approvals Approvals UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Application area Il 1/2 GD Ignition protection category MTFF 1189 years acc. to SN 29500 (Ed. 99) 40 °C Included in delivery Profile seal FKM special (1 pc)	Temperature behaviour			
Temperature coefficient ± 0.2 % of full scale/10 K Environmental conditions Ambient temperature -25+85 °C Storage temperature -50+100 °C Vibration resistance 20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6 Shock resistance 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27 Mechanical data Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Ceramic Al ₂ O ₃ Sealing material FPM spez. Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601080 hPa abs. Humidity 4575 % rel. Auxillary power 24 VDC Tests/approvals Approvals CULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Application area II 1/2 GD Ignition protection category Gas Ex ia IIIC, dust Ex ia IIIC MTTF	·	-30+120 °C		
Environmental conditions Ambient temperature -25+85 °C Storage temperature -50+100 °C Vibration resistance 20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6 Shock resistance 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27 Mechanical data Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Ceramic Al ₂ O ₃ Sealing material FPM spez. Process connection FPM spez. Process connection Connection (1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals cULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Set in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Set in IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C				
Ambient temperature -25+85 °C Storage temperature -50+100 °C Vibration resistance 20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6 Shock resistance 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27 Mechanical data Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Ceramic Al ₂ O ₃ Sealing material FPM spez. Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals cULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SeV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIIC; dust Ex ia IIIC	·	2 0.2 70 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		
Storage temperature -50+100 °C Vibration resistance 20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6 Shock resistance 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27 Mechanical data Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Ceramic Al₂O₃ Sealing material FPM spez. Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area Il 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C		-25 +85 °C		
Vibration resistance 20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6 Shock resistance 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27 Mechanical data Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyary/amide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Ceramic Al₂O₃ Sealing material FPM spez. Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area Il 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C				
Mechanical data Housing material Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Scaling material FPM spez. Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C		20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to		
Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Ceramic Al₂O₃ Sealing material Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Application area Il 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Shock resistance	6 directions, free fall from 1 m onto con-		
Pressure connection material Pressure transducer material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Ceramic Al ₂ O ₃ Sealing material Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals UL registration number E302799 Important note Ex approval acc. to conformity certificate Application area Il 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Mechanical data			
Pressure transducer material Sealing material FPM spez. Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Ipiliton protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Housing material			
Sealing material Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals CULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Application area Il 1/2 GD Ignition protection category Gas Ex ia IIIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Pressure connection material	Stainless steel 1.4404 (AISI 316L)		
Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Application area Il 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Pressure transducer material	Ceramic Al₂O₃		
ing to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut 20 Nm Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals CULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Sealing material	FPM spez.		
Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut 20 Nm Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals cULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Process connection	ing to DIN EN ISO 1179-2 with FPM pro-		
Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C		24		
Reference conditions acc. to IEC 61298-1 Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals CULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Electrical connection	Connector, M12 × 1		
Temperature 15+25 °C Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals cULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Max. tightening torque of housing nut	20 Nm		
Atmospheric pressure 8601060 hPa abs. Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals cULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C				
Humidity 4575 % rel. Auxiliary power 24 VDC Tests/approvals Approvals cULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Temperature	15+25 °C		
Auxiliary power Tests/approvals Approvals CULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Application area Il 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Atmospheric pressure	8601060 hPa abs.		
Tests/approvals Approvals CULus UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Humidity	4575 % rel.		
Approvals UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Auxiliary power	24 VDC		
UL registration number E302799 Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Tests/approvals			
Important note For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Approvals	cULus		
ues specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. Ex approval acc. to conformity certificate SEV 16 ATEX 0145 Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	UL registration number	E302799		
Application area II 1/2 GD Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Important note	ues specified in the corresponding Ex certificates (ATEX, IECEX,		
Ignition protection category Gas Ex ia IIC; dust Ex ia IIIC MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Ex approval acc. to conformity certificate	SEV 16 ATEX 0145		
MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Application area	II 1/2 GD		
°C	Ignition protection category	Gas Ex ia IIC; dust Ex ia IIIC		
Included in delivery Profile seal FKM special (1 pc)	MTTF			
	Included in delivery	Profile seal FKM special (1 pc)		



Accessories

Dimension drawing	Turno	ID	
MI2x1 ø15 Ø14 + 11.5 + 42 - 50 - 50	Type RKC4.441T-2/TEB	6628444	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, blue; cULus approval
M12 x 1 ø 15 2 14 11.5 4 12 50	RKC4.441T-2/TXB	6631010	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, blue; cULus approval
0 15 M12 x1 26.5 32	WKC4.441T-2/TEB	6628451	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, blue; cULus approval
0 15 M12 x 1 26.5 32	WKC4.441T-2/TXB	6629180	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, blue; cULus approval



Instructions for use

Intended use

This device fulfills Directive 2014/34/EU and is suited for use in areas exposed to explosion hazards according to EN 60079-0:2012 + A11:2013, EN 60079-11:2012 and EN 60079-26:2015. In order to ensure correct operation according to the intended purpose, the national regulations and directives must be observed.

For use in explosion hazardous areas conform to classification

The sensors may be used only in dust or gas areas

Marking (see device or technical data sheet)

II 1/2 GD Ex ia IIC T4 Ga/Gb and Ex ia IIIC T125°C Da/Db acc. to EN60079-0:12+A11:2013

Installation/Commissioning

These devices may only be installed, connected and operated by trained and qualified staff. Qualified staff must have knowledge of protection classes, directives and regulations concerning electrical equipment designed for use in explosion hazardous areas. Please verify that the classification and the marking on the device comply with the actual application conditions.

This device is only suited for connection to approved Exi circuits according to EN 60079-0 and EN 60079-11. Please observe the maximum admissible electrical values. After connection to other circuits the sensor may no longer be used in Exi installations. When interconnected to (associated) electrical equipment, it is required to perform the "Proof of intrinsic safety" (EN60079-14).

Installation and mounting instructions

Avoid static charging of cables and plastic devices. Please only clean the device with a damp cloth. Do not install the device in a dust flow and avoid build-up of dust deposits on the device. If the devices and the cable could be subject to mechanical damage, they must be protected accordingly. They must also be shielded against strong electro-magnetic fields. The pin configuration and the electrical specifications can be taken from the device marking or the technical data sheet. In order to avoid contamination of the device, please remove possible blanking plugs of the cable glands or connectors only shortly before inserting the cable or opening the cable socket.

Special conditions for safe operation

The device must be protected against any kind of mechanical damage.

Service/Maintenance

Repairs are not possible. The approval expires if the device is repaired or modified by a person other than the manufacturer. The most important data from the approval are listed.