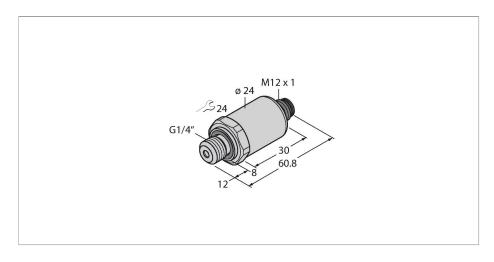


PT2.5R-2004-IX-H1143 Pressure Transmitter - With Current Output (2-Wire)



Features

- Fully welded metal measuring cell
- Pressure range 0...2.5 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

Technical data

Load

Resolution

Accuracy LHR



3 Out 4 GND

Туре	PT2.5R-2004-IX-H1143		
ID	100022175		
Pressure type	Relative pressure		
Pressure range	02.5 bar		
	036.26 psi		
	00.25 MPa		
Admissible overpressure	≤ 12.5 bar		
Burst pressure	≥ 25 bar		
Response time	< 2 ms, typ. 1 ms		
Long-term stability	0.25 % FS, according to IEC EN 60770-1		
Power supply			

Response time	< 2 ms, typ. 1 ms	
Long-term stability	0.25 % FS, according to IEC EN 60770-1	
Power supply		
Operating voltage U _B	1030 VDC	
Current consumption	≤ 23 mA	
Short-circuit/reverse polarity protection	yes / yes	
Protection class	IP67	
Insulation class	III	
Insulation voltage	750 VDC	
Outputs		
Output 1	Analog output	
Output function	Analog output current	
Analog output		
Current output	420 mA	

Functional principle

The pressure sensors in the PT...-2000 product series operate with a fully welded metal measuring cell in various pressure ranges of up to -1...1000 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.

±0.3 % FS (typical; max. ±0.5 % FS)

≤ (supply voltage -10)/20 kΩ

<± 0.1 % FS



Technical data

Medium temperature -30+120 °C Temperature coefficient ± 0.2 % of full scale/10 K Environmental conditions Ambient temperature -50+100 °C Vibration resistance -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 -51 Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material -51 Stainless steel 1.4404 (AISI 316L) Stainless steel 1.4404 (AISI 316L) Stainless steel 1.4404 (AISI 316L) Stainless steel 1.4016 (AISI 430) Process connection -51 Stainless steel 1.4016 (AISI 430) Wrench size pressure connection / coupling nut -51 Connector, M12 × 1 Max. tightening torque of housing nut -51 Connector, M12 × 1 Max. tightening torque of housing nut -52 °C Atmospheric pressure -52 °C Atmospheric pressure -53 °C Atmospheric pressure -54 °C Atmospheric pressure -55 °C Atmospheric pressure -56 °C Atmospheric pressure -56 °C Atmospheric pressure -57 °C Atmospheric pressure -58 °C Atmospheric pressure -58 °C Atmospheric pressure -59 °C Atmosphe	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) Material pressure transducer Stainless steel 1.4016 (AISI 430) 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	·	-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) Material pressure transducer Stainless steel 1.4016 (AISI 430) 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 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 IIIC; dust Ex ia IIIC	<u> </u>			
Ambient temperature -50+100 °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) Material pressure transducer 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 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	·	1 0.2 /0 Of full Scale/ TO IX		
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)/polyary/lamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Material pressure transducer Stainless steel 1.4016 (AISI 430) 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 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 L05 °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 Material pressure transducer Stainless steel 1.4016 (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 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	<u> </u>			
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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)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Material pressure transducer Stainless steel 1.4016 (AISI 430) 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 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	Vibration resistance	plitude ± 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) Material pressure transducer Stainless steel 1.4016 (AISI 430) 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 Stainless steel 1.4404 (AISI 316L) Material pressure transducer Stainless steel 1.4016 (AISI 430) 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	Mechanical data			
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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 connection material	Stainless steel 1.4404 (AISI 316L)		
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 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 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 Interpretation SN 29500 (Ed. 99) 40 °C	Material pressure transducer	Stainless steel 1.4016 (AISI 430)		
Pling 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	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				
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	Electrical connection	Connector, M12 × 1		
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 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	Max. tightening torque of housing nut Reference conditions acc. to IEC			
Auxiliary power 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	Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1	20 Nm		
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 Reference conditions acc. to IEC 61298-1 Temperature	20 Nm 15+25 °C		
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 Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure	20 Nm 15+25 °C 8601060 hPa abs.		
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 Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure Humidity	20 Nm 15+25 °C 8601060 hPa abs. 4575 % rel.		
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 Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure Humidity Auxiliary power	20 Nm 15+25 °C 8601060 hPa abs. 4575 % rel.		
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	Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure Humidity Auxiliary power Tests/approvals	20 Nm 15+25 °C 8601060 hPa abs. 4575 % rel. 24 VDC		
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 Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure Humidity Auxiliary power Tests/approvals Approvals	20 Nm 15+25 °C 8601060 hPa abs. 4575 % rel. 24 VDC cULus		
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 Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure Humidity Auxiliary power Tests/approvals Approvals UL registration number	20 Nm 15+25 °C 8601060 hPa abs. 4575 % rel. 24 VDC cULus E302799 For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX,		
MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure Humidity Auxiliary power Tests/approvals Approvals UL registration number Important note	20 Nm 15+25 °C 8601060 hPa abs. 4575 % rel. 24 VDC CULus E302799 For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply.		
°C	Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure Humidity Auxiliary power Tests/approvals Approvals UL registration number Important note Ex approval acc. to conformity certificate	20 Nm 15+25 °C 8601060 hPa abs. 4575 % rel. 24 VDC cULus E302799 For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. SEV 16 ATEX 0145		
Included in delivery FKM special profile seal (1x)	Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure Humidity Auxiliary power Tests/approvals Approvals UL registration number Important note Ex approval acc. to conformity certificate Application area	20 Nm 15+25 °C 8601060 hPa abs. 4575 % rel. 24 VDC cULus E302799 For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. SEV 16 ATEX 0145 II 1/2 GD		
	Max. tightening torque of housing nut Reference conditions acc. to IEC 61298-1 Temperature Atmospheric pressure Humidity Auxiliary power Tests/approvals Approvals UL registration number Important note Ex approval acc. to conformity certificate Application area Ignition protection category	20 Nm 15+25 °C 8601060 hPa abs. 4575 % rel. 24 VDC cULus E302799 For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply. SEV 16 ATEX 0145 II 1/2 GD Gas Ex ia IIC; dust Ex ia IIIC 1189 years acc. to SN 29500 (Ed. 99) 40		



Accessories

Dimension drawing	Туре	ID	
M12×1 0 15	RKC4.441T-2/TEB	6628444	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, blue; cULus approval
M12x1 0 15 % 14	RKC4.441T-2/TXB	6631010	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, blue; cULus approval
015 M12x1 26.5 014	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 32	WKC4.441T-2/TXB	6629180	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, blue; cULus approval
M12x1 o 15 1/2 14	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
0.15 M12x1 26.5 32	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
0 15 M12x1 26.5 32	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval



Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; 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.