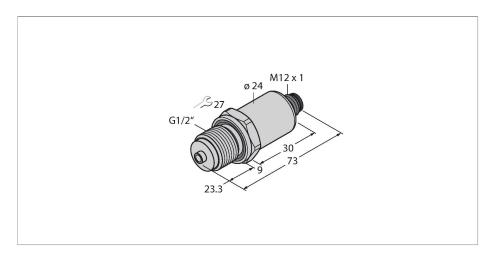


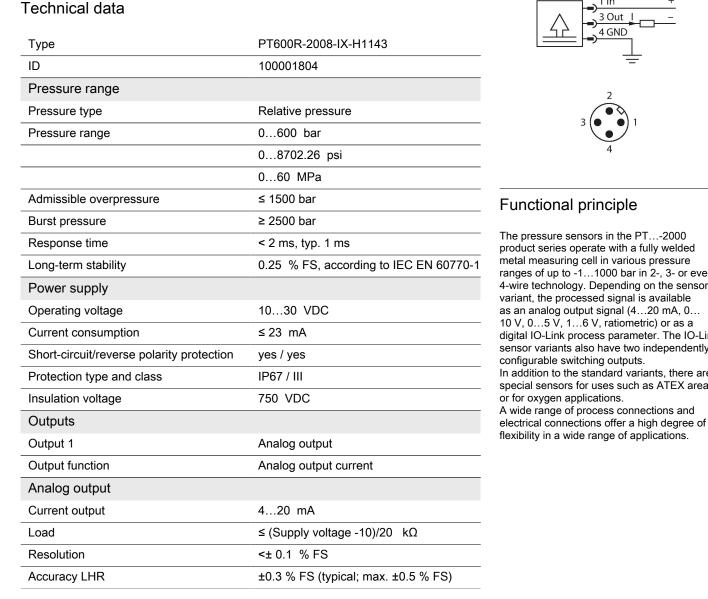
# PT600R-2008-IX-H1143 Pressure Transmitter - With Current Output (2-Wire)

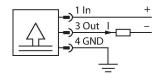


### **Features**

- Fully welded metal measuring cell
- Pressure range 0...600 bar rel.
- ■10...30 VDC
- ■Analog output 4...20 mA
- Process connection G1/2" male thread, back sealing and manometer (combi)
- Connector device, M12 × 1
- ■ATEX, IECEx
- Category II 1/2 GD, Ex zone 0

# Wiring diagram







## 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



# Technical data

Medium temperature -30+120 °C  Temperature coefficient ± 0.2 % of full scale/10 K  Environmental conditions  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)  Process connection G 1/2" male thread, rear sealing and manometer (combi)  Wrench size pressure connection / coupling nut  Electrical connection Connector, M12 × 1  Max. tightening torque of housing nut 30 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 Eartificates (ATEX, IECEX, UL etc.) apply.  Ex approval acc. to conformity certificate SEV 16 ATEX 0145  Iliny gears acc. to SN 29500 (Ed. 99) 40 °C  Included in delivery FKM special profile seal (1x)	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 Stainless steel 1.4404 (AISI 316L)  Process connection G 1/2" male thread, rear sealing and manometer (combi)  Wrench size pressure connection / coupling nut  Electrical connection Connector, M12 × 1  Max. tightening torque of housing nut 30 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	·	-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 1.4403 (AISI 316L)  Process connection  G 1/2" male thread, rear sealing and manometer (combi)  Wrench size pressure connection / coupling nut  Electrical connection  Connector, M12 × 1  Max. tightening torque of housing nut  30 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  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  In 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				
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)  Process connection 3 Stainless steel 1.4404 (AISI 316L)  Process connection G 1/2" male thread, rear sealing and manometer (combi)  Wrench size pressure connection / coupling nut  Electrical connection Connector, M12 × 1  Max. tightening torque of housing nut 30 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 11/2 GD  Ignition protection category Gas Ex ia IIIC; dust Ex ia IIIC	·	2 0.2 70 01 fall 33alo, 10 ft		
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 68-2-7  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)  Process connection  G 1/2" male thread, rear sealing and manometer (combi)  Wrench size pressure connection / coupling nut  Electrical connection  Connector, M12 × 1  Max. tightening torque of housing nut  30 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  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 +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)/polyarylamide 50 % GF UL 94 V-0  Pressure connection material  Stainless steel 1.4404 (AISI 316L)  Process connection  G 1/2" male thread, rear sealing and manometer (combi)  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				
plitude ± 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 Stainless steel 1.4404 (AISI 316L)  Process connection G 1/2" male thread, rear sealing and manometer (combi)  Wrench size pressure connection / coupling nut  Electrical connection Connector, M12 × 1  Max. tightening torque of housing nut 30 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  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				
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 transducer material Stainless steel 1.4404 (AISI 316L) Process connection G 1/2" male thread, rear sealing and manometer (combi)  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	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)  Pressure transducer material  Stainless steel 1.4404 (AISI 316L)  Process connection  G 1/2" male thread, rear sealing and manometer (combi)  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  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 Stainless steel 1.4404 (AISI 316L) Process connection G 1/2" male thread, rear sealing and manometer (combi)  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 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  Process connection  G 1/2" male thread, rear sealing and manometer (combi)  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	Housing material			
Process connection  G 1/2" male thread, rear sealing and manometer (combi)  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  Interportant Description of the corresponding Ex certificates (ATEX 0145)  Application area  Il 1/2 GD  Interportant Description of the corresponding Ex certificates (ATEX 0145)  Application area  Il 1/2 GD  Interportant Description of the corresponding Ex certificates (ATEX 0145)  Application area  Il 1/2 GD  Interportant Description of the corresponding Ex certificates (ATEX 0145)  Application area  Il 1/2 GD  Interportant Description of the corresponding Ex certificates (ATEX 0145)  Application area  Il 1/2 GD  Interportant Description of the corresponding Ex certificates (ATEX 0145)  Application area  Il 1/2 GD	Pressure connection material	Stainless steel 1.4404 (AISI 316L)		
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  Interportant Protection category  Gas Ex ia IIC; dust Ex ia IIIC  MTTF  1189 years acc. to SN 29500 (Ed. 99) 40 °C	Pressure transducer material	Stainless steel 1.4435 (AISI 316L)		
Electrical connection Connector, M12 × 1  Max. tightening torque of housing nut 30 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			
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		27		
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 IIIC; dust Ex ia IIIC  MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Max. tightening torque of housing nut	30 Nm		
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	Temperature	15+25 °C		
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	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  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.		
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 correspond- ing 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		SEV 16 ATEX 01/15		
MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C	Ex approval acc. to conformity certificate	OLV 10 ATEX 0143		
°C				
Included in delivery FKM special profile seal (1x)	Application area	II 1/2 GD		
	Application area Ignition protection category	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	
M12x1 o 15 14 14 11.5 14 15 50	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 +	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.