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## **XP95 I.S. Galvanic Barrier**



#### **Product overview**

Product Part No.

29600-098

XP95 I.S. Galvanic Barrier



The XP95 Intrinsically Safe (I.S.) Galvanic Barrier is used for intrinsic safety applications. It provides control and signal transfer to XP95 compatible fire and smoke alarm transmitters inside hazardous areas.

Since this isolator is loop-powered, use the technical data to verify that proper voltage is available to the field devices.

- · Single channel isolated barrier
- Loop-powered
- XP95 fire alarm input
- Up to SIL3 acc. to IEC 61508

#### **Technical data**

All data is supplied subject to change without notice. Specifications are typical at 19 V, 25°C and 50% RH unless otherwise stated.

General specifications	
Signal type	Analogue input
Functional safety related param	eters
Safety integrity level (SIL)	SIL3
Supply	
Rated voltage U <sub>r</sub>	loop powered
Power dissipation	< 0.2 W for $U_{in}$ = 24 V $I_o$ = 20 mA
Control circuit	
Connection	terminals 11+, 12 -
Voltage	0 - 24 V for 4 V $\leq$ U $_{e}$ $\leq$ 24 V: $\geq$ U $_{e}$ -(0.41 x input current in mA) - 0.5
Current	0 - 20 mA
Field circuit	
Connection	terminals 1+, 2-
Short-circuit current	≤ 65 mA
Transmission range	voltage 4 - 20 V dc/0 - 6 V <sub>pp</sub> ac current 1 - 20 mA
Transfer characteristics	
Deviation	
after calibration	≤ 3.5 mA current loss at 20 mA load current
influence of ambient temperature	± 20 µA/K
Rise time/fall time	≤ 50 µs (load current ≥ 1 mA)
Galvanic isolation	
Input/Output	safe electrical isolation acc.to IEC/EN60079-11, voltage peak value 375 V
Indicators/settings	
labelling	space for labelling at the front
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN61326-1:2013 (industrial locations)
Conformity	
Electromagnetic compatibility	NE 21:2006
Degree of protection	IEC 60529:2001
Protection against electrical shock	UL 61010-1
Ambient conditions	
Ambient temperature	-20 - 60 °C (-4 - 140 °F)
Mechanical specification	
Degree of protection	IP20
Connection	screw terminals
Mass	approx. 100g

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#### Technical data (cont'd)

Dimensions	20 x 107 x 115 mm (0.8 x 4.2 x 4.5 inch), housing type B1		
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001		
Data for application in connection with hazardous areas			
EU-Type examination certificate	BAS 00 ATEX 7087		
Marking			
Voltage U <sub>o</sub>	28 V		
Current I <sub>o</sub>	93 mA		
Power P <sub>o</sub>	653 mW		
Supply			
Maximum safe voltage U <sub>m</sub>	253 V (Attention! the rated voltage can be lower)		
Type of protection [Ex ia]			
Certificate	TÜV 99 ATEX 1499X		
Marking	⟨ II 3G Ex nA II T4 Gc [device in zone 2]		
Galvanic isolation			
Input/Output	safe electrical isolation acc. to IEC/ EN60079-11, voltage peak value 375 V		
Directive conformity			
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010		
International approvals			
FM approval			
Control drawing	116-0129 (cFMus)		
UL approval			
Control drawing	116-0348 (cULus)		
IECEx approval	IECEx BAS 08.0079 IECEx BAS 10.0007X		
Approved for	[Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I EX nA II T4 Gc		

#### Galvanic barrier terminal connections

	Removable terminal - blue
7 8 9 10 11 12 0 0 0 0 0 0 0	Removable terminal - green

