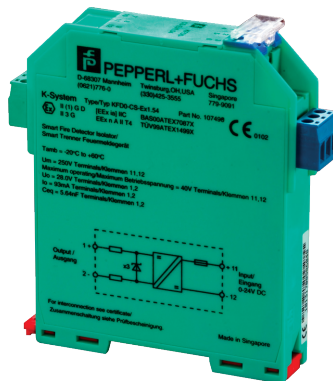


# XP95 I.S. Galvanic Barrier



## Product overview

Product	XP95 I.S. Galvanic Barrier
Part No.	29600-098

## Compliance



## Product Information

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 parameters

Safety integrity level (SIL) *SIL3*

### Supply

Rated voltage  $U_r$  *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  $4 V \leq U_e \leq 24 V$ ;  $\geq U_e - (0.41 \times \text{input current in mA}) - 0.5$*

Current *0 - 20 mA*

### Field circuit

Connection *terminals 1+, 2-*

Short-circuit current  *$\leq 65 mA$*

Transmission range *voltage 4 - 20 V dc/0 - 6 V<sub>pp</sub> ac  
current 1 - 20 mA*

### Transfer characteristics

#### Deviation

*after calibration*  $\leq 3.5 mA$  current loss at 20 mA load current

*influence of ambient temperature*  $\pm 20 \mu A/K$

*Rise time/fall time*  $\leq 50 \mu s$  (load current  $\geq 1 mA$ )

### 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*

### 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

<b>EU-Type examination certificate</b>	BAS 00 ATEX 7087
<b>Marking</b>	Ⓔ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I (-20 °C ≤ T amb ≤ 60°C) [circuit(s) in zone 0/1/2]
<b>Voltage U<sub>0</sub></b>	28 V
<b>Current I<sub>0</sub></b>	93 mA
<b>Power P<sub>0</sub></b>	653 mW
<b>Supply</b>	
<b>Maximum safe voltage U<sub>m</sub></b>	253 V (Attention! the rated voltage can be lower)
<b>Type of protection [Ex ia]</b>	
<b>Certificate</b>	TÜV 99 ATEX 1499X
<b>Marking</b>	Ⓔ II 3G Ex nA II T4 Gc [device in zone 2]
<b>Galvanic isolation</b>	
<b>Input/Output</b>	safe electrical isolation acc. to IEC/EN60079-11, voltage peak value 375 V
<b>Directive conformity</b>	
<b>Directive 2014/34/EU</b>	EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010
<b>International approvals</b>	
<b>FM approval</b>	
<b>Control drawing</b>	116-0129 (cFMus)
<b>UL approval</b>	
<b>Control drawing</b>	116-0348 (cULus)
<b>IECEX approval</b>	
	IECEX BAS 08.0079 IECEX BAS 10.0007X
<b>Approved for</b>	[Ex ia Ga] IIC, [Ex ia Da] IIC, [Ex ia Ma] I EX nA II T4 Gc

### Galvanic barrier terminal connections

