

XP95 I.S.

Galvanic Barrier



Product Overview

Product XP95 I.S. Galvanic Barrier

Part No. 29600-098

Approvals



Product Information

The XP95 Intrinsically Safe (I.S.) Galvanic Barrier is installed in the safe area and ensures system integrity.

The device also enables compliance with the ATEX directive

Technical data

All data is supplied subject to change without notice. Specifications are typical at 24 V, 23°C and 50% RH unless otherwise stated.

Input (intrinsically safe)

Connection type	Terminals 1+, 2-; 4+, 5-
Transmission range	Voltage: 4 to 26 V dc/0 to 6 V SSac current: 1 to 20 mA
Short-circuit current	65 mA

Details of certificate of conformity

Certification number	BAS No. Ex 95C2064
Group, category, ignition protection method	[EEx ia] IIC ($T_{amb} = 60^{\circ}\text{C}$)
Voltage U_0	28 V
Current I_0	93 mA
Power P_0	653 mW

Allowable circuit values

Ignition protection class, category	[EEx ia]
Explosion group	IIA IIB IIC
External capacitance	1.03 F 0.38 F 012 F
External inductance	33.6 H 12.6 H 4.2 mH

Technical data (cont'd)

Entity parameter			
Certification number	4Z6A5.AX		
FM control drawing	No. 116-0129		
Suitable for installation in Division 2	Yes		
Connection type	Terminals 2, 1		
Voltage U_{OC}	28.5 V		
Current I_{SC}	95 mA		
Explosion group	A&B	A&B	D, F&G
Max. external capacitance C_a	0.13 F	0.41 F	1.1 F
Max. external inductance L_a	4.09 mH	16.02 mH	32.82 mH

Safety parameter			
CSA control drawing	LR 65756-13		
Control drawing	No. 116-0132		
Connection type	Terminal 2, 1		
Safety parameter	28 V / 300 Ohm		
Voltage U_{OC}	28 V		
Current I_{SC}	95 mA		
Explosion group	A&B	C&E, D	F&G
Max. external capacitance C_a	0.14 F	0.42 F	1.1 4F
Max. external inductance L_a	3.1 mH	16.7 mH	34.0 mH
Approved for Zone 2	TÜV 99 ATEX 1499 X (observe conformity statement) (Ex) II 3 G EEx n A II T4		

Output (not intrinsically safe)	
Connection type	Terminal 11+, 12 -; 9 +, 10 -
Voltage	0 to 26 V - for 4 V U_{in} 26 V U_{in} - (0.38 x current in mA) - 0.5
Current	1 to 20 mA

Transfer characteristics	
Deviation	-1,6 mA to 0 mA (incl. non-linearity, hysteresis, load and dc quiescent current)
After calibration	
Temperature	20 A/K
Rise time	50 s (load current 1 mA)

Galvanic isolation	
Input/Output	Available

Ambient conditions	
Ambient temperature	-20°C to -60°C (253 to 333 K)

Standard conformity	
Co-ordination of insulation	DIN EN 50178
Galvanic isolation	DIN EN 50178
EMC compatibility	EN 50081-2 / EN 50082-2. NAMUR NE 21

Mechanical specifications	
Mass	100g

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