

# SAFE POT

# Safety barrier

**APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 94/9/CE - ATEX**



These intrinsically safe barriers allow to repeat in a safe area a potentiometric signal located in an hazardous area.  
 Certificate N° **TUV 99.ATEX.1405 II 1G Exia IIC T4**  
 These devices provide a complete galvanic isolation between the two areas under control.



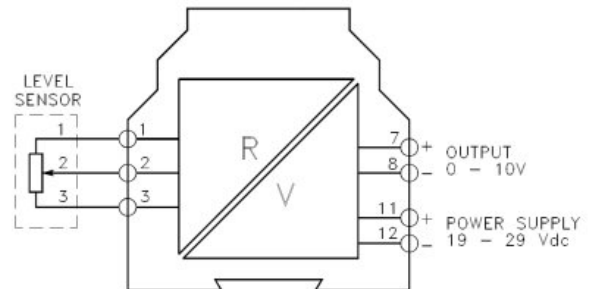
## GENERAL FEATURES

- Single measuring channel.
- LED operating indicator.
- Analog output.
- 35 mm DIN bar mounting.

## TECHNICAL DATA Tab.1

Description	Technical data	Code
Type	Active barrier	<b>A</b>
Hazardous area – Safety grade	II 1G Exia IIC T4	-
Signal input	N. 1 potentiometric channel 800Ω - 20KΩ - Max. cable 50Ω	<b>POT</b>
Power to sensor in hazardous area	5 Volt $U_o \leq 13,8V$ - $I_o \leq 35mA$ - $P_o \leq 121mW$	-
Safe area output	0 + 10 V Load > 500Ω	<b>0/10</b>
Linearity	< 0,2% F.S.	-
Precision	< 0,2% F.S.	-
Temperature coefficient	< 0,02% K°	-
Operating indicators	Green LED Power supply On	-
Power supply	19 + 29 Vdc	<b>24D</b>
Power consumption	1,8W max.	-
Electrical insulation	250Vac – 250 Vdc	-
Working temperature	-20°C + +60°C	-
Degree of protection	IP20	-
Terminal board	≤ 2,5 mm²	-
Mounting	35 mm.DIN bar	-
Dimensions	104 x 110 x 18 mm - Weight 125g	-

## WIRING



## NOMENCLATURE

BARRIERA	A	POT	0/10	24D
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Name
Tab.1 A = Active
Tab.1 Type of input
Tab.1 Output signal
Tab.1 Power supply