

A4S

Technical data

Power supply:	24Vdc; 24/115/230Vac 50÷60Hz
Power consumption:	2,5 VA max.
Storage temperature:	-30÷+80 °C
Working temperature:	-10÷+50 °C
Mechanical protection:	IP00
Analog input:	4÷20mA or 0÷10V
Impedance input:	mA input 50ohm, V input 10Kohm
Contact rating:	n.4 SPDT 250V 3A Max
Hysteresis:	1% o 2 % selectable
Display:	green led - supply red leds - thresholds

A4S

825B081B

4 current or voltage thresholds



A4S General

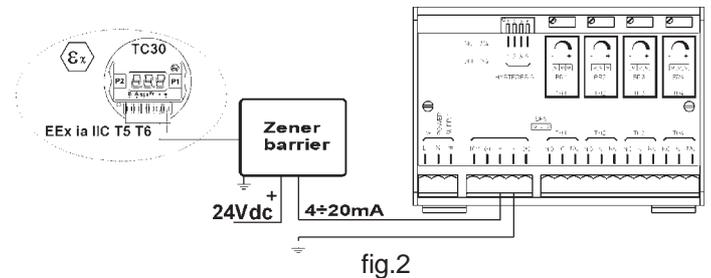
The A4S is a device that converts a linear analog signal into the four different thresholds.

The A4S could be used as current threshold or voltage threshold, on the ground of the model

The particular constructive technology of the A4S can allowed to connect more units together, obviously with the same analog input signal

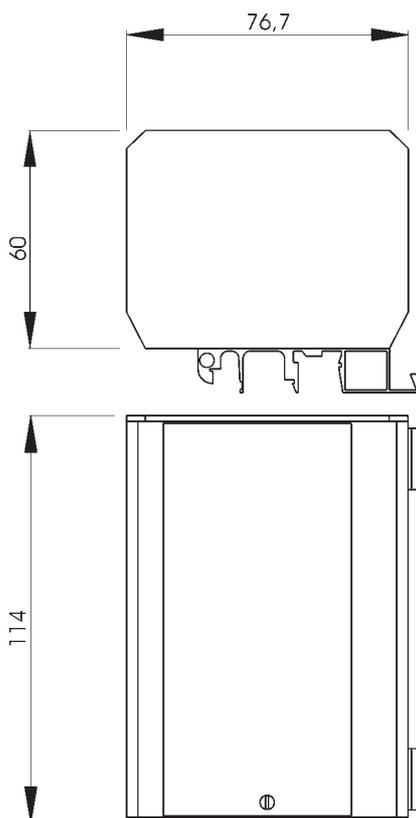
A4S Application

The A4S can be connected at the EEx ia IIC T6/T5/T4 certificate compact capacitance level transmitter TC30 (fig.2).



A4S Mechanical installation

The A4S is designed to be fixed in the din-rail (fig.1).



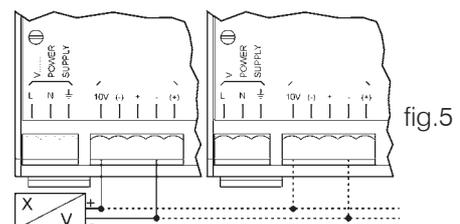
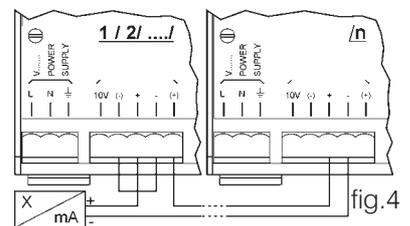
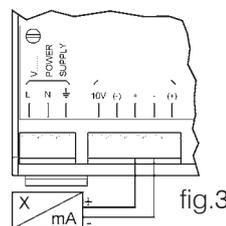
A4S Electrical connections

The diagram of the electric connections has shown in figures 3, 4 and 7.

Minimum section of the cables: 0.5 mm²

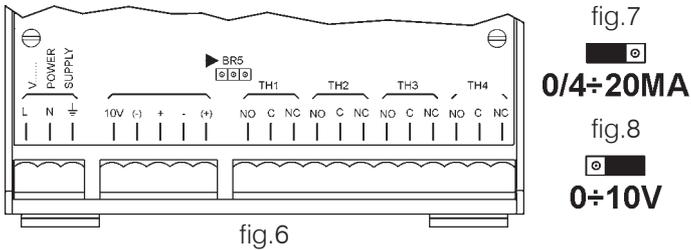
Maximum length of the cables: 250 m

The cables of connection must have separate run from the cables of power.



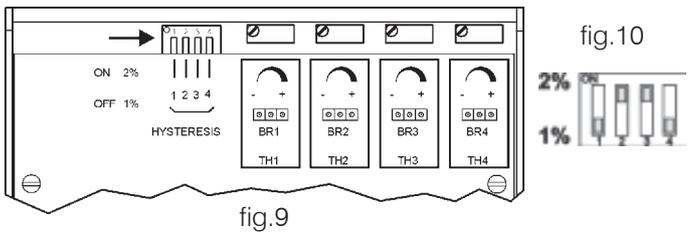
A4S Analog input signal setting

The analog input signal could be equal to current (0/4÷20mA) or voltage (0÷10V). The standard setting is 0/4÷20mA (fig.7); if you want change the input signal setting the BR5 jumper must be setted like fig.8 (0÷10V).



A4S Hysteresis setting

The hysteresis threshold could be equal to 1% or 2%. The standard setting is 2%; if you want a more precise threshold the hysteresis could be led to 1% by setting the deep-switch on the OFF position.



A4S Warranty

The warranty expires when damages they have provoked from the use not quite or from not correct installations. The warranty is valid for a period of 12 months from the acquisition behind presentation of the manual present of installation. All the reparations in warranty will have realised beside our establishment in Rodano (MI), the costs of dismounting and reinstalling of the device and the costs of transport will be paid by the customer.

A4S Factory test certificate

In conformity to the production and check procedures I certify the equipment:

A4S serial n.

satisfy technical characteristics as write in TECHNICAL DATA and it is conform to the internal procedures

Quality control Manager

Date of manufacture:



A4S Relays setting

The fail safe switch for all the 4 relays can be on (NE) or off (ND).

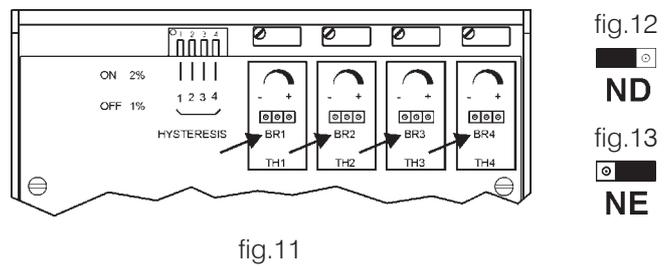
ON (NE) means: normally energized, when alarm occurs the relay become de-energized.

OFF (ND) means: normally de-energized, when alarm occurs the relay became energized.

The display LED referring to the TH1, TH2 TH3 and TH4 independently from the "SAFETY" selection will be lighted when the relay became energized.

If you want change the fail safe switch type setting the BR1/2/3/4 jumper must be setted like fig.12 and 13.

All the 4 thresholds are max. alarm level, and the contact ratings are SPDT.

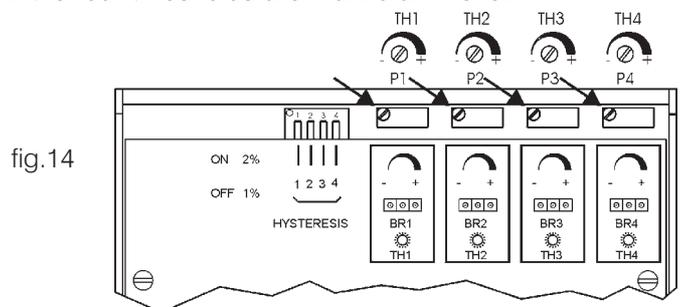


A4S Thresholds calibration

The calibration of the thresholds is performed in the following way:

- set the input analog signal level to the alarm level;
- starting from minimum, turn slowly the trimmer of the threshold to be calibrate until to get the desexcitation of the relay; at this point turn the trimmer toward the minimum until to get the excitation of the relay. The trimmer must be positioned between the two points that determine the relay release.

All the four thresholds are max. alarm level.



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