

# ISO 10, GALVANIC ISOLATOR / SIGNAL CONVERTER

ISO 10 module provides galvanic isolation between the input and output signals and supply voltage. ISO 10 can also be used as a signal converter and amplifier between wide ranges of signal options.

Galvanic isolation may be needed if the system has multiple grounding points. Potential difference between the grounding points causes so-called ground loop effect, which may interfere with the signal transferring or measurement of the transmitter. The ground loop effect is not created when between different points of the grounded devices the ISO 10 module is used.

ISO 10 module can be configured to convert various types of signals by coding switches without opening the casing. Factory setting is 0...10 V in and 0...10 V and 0...20 mA out.

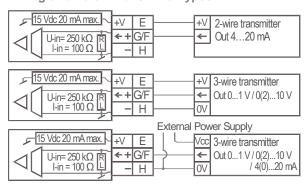
## Input and output signal range selection:

Input	U-out	I-out	sw 1	sw 2	sw 3
01 V	010 V	020 mA		on	
01 V	210 V	420 mA		on	on
* 010 V	* 010 V	* 020 mA			
010 V	210 V	420 mA			on
210 V	010 V	020 mA	on		
4(0)20 mA	2(0)10 V	4(0)20 mA	on	on	on
020 mA	210 V	420 mA	on	on	
420 mA	010 V	020 mA	on		on
·					

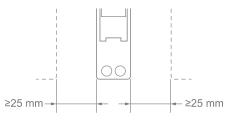
<sup>\*</sup> factory setting



### Wiring of different transmitter types:



# **Protective distances:**





### Technical data:

Supply 24 Vac/dc
Power consumption < 2 VA
Isolation voltage < 500 Vdc

Input impedance 10 V range 250 k $\Omega$  (I in  $\leq$  50 uA)

 $\text{max.500}~\Omega$ 

Deviation < 0.35 % FSO (25 °C) Temperature drift < 0.003 % °C

Response time about 1 s

Ambient temperature -20...50°C

Dimensions (w x h x d) 13 x 90 x 115 mm

## Wiring:

(+)	I	24 Vac/dc (+) supply	
(-)	L	24 Vac/dc (0 V)	
(+V)	Е	15 Vdc, 20 mA, 2-wire transmitter	
(+)	G/F	input 01 V or 0(2)10 V or 420 mA	
(-)	Н	input (0 V)	
(+)	N	output U-out	
(-)	М	output 0 V	
(+)	Р	output I-out	
(-)	0	output 0 V	

Ordering guide:

ModelProduct numberDescriptionISO 101182060isolator / converter

Products fulfil the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).