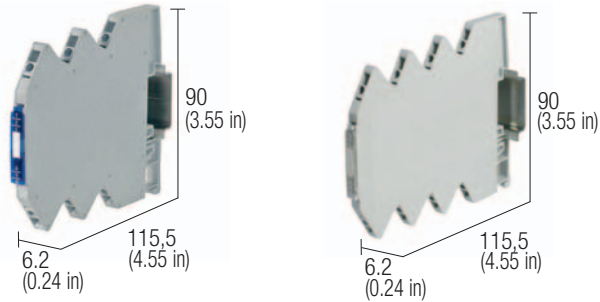


Passive galvanic isolators

- Do not require power supply
- Suitable for loop powered sensors
- 2 Ways I/O 500 V isolation
- Single and double channel version
- Compact dimension, 6.2 mm pitch



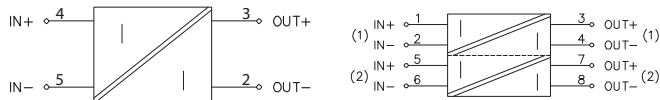
NOTES

The dimensions includes the DIN clamp.

(1) Input voltage must have a value higher than the value calculated with this formula, where R_b is load resistance (see pic.1); for calculation refer to the diagram comparing minimum input voltage with output load and wires resistance values; refer to the diagram (see pic. 2) to define if application conditions allow to get full 20 mA output signal

(2) 2-way isolation: IN/OUT

BLOCK DIAGRAM



VERSIONS

Single channel
Double channel

INPUT TECHNICAL DATA

Input signal
Input current
Input voltage (1)
Input resistance

Cat. No. X756526

CWPAA 7-0526

Cat. No. X756527

CWPAA 7-0527

1 channel 0...20 mA, 4...20 mA

2 channels 0...20 mA, 4...20 mA

—
 $2.7 + (20 \text{ mA} \times R_b)$
100 Ω

—
 $2.7 + (20 \text{ mA} \times R_b)$
100 Ω

OUTPUT TECHNICAL DATA

Output signal
Applicable load

1 channel 0...20 / 4...20 mA, (max 21 mA)
<400 Ω with output current

2 channels 0...20 / 4...20 mA, (max 21 mA)
<400 Ω with output current

GENERAL TECHNICAL DATA

Supply voltage
Rated current
Accuracy
Rise time (10..90%)
Transmission frequency
Temperature coefficient
Isolation
ECM standards
Reference Standard
Overvoltage category/Pollution degree
Protection degree
Operating temperature range
Connection terminal
Housing material
Approx. weight
Mounting information

—
12 mA
0.1 FS (23°C)
10 ms
30 Hz @ 3 dB
0.02% FS
1.5 kVAc / 60 s (2)
EN 61000-6-2, EN 61000-6-4
IED 664-1, DIN VDE
III / 2
IP 20 IEC 529 EN60529
-25...+60°C
1.5 mm² fixed screw type
Luranyl
35 g (1.24 oz)
vertical on rail adjacent without gap

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MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5
Mounting rail type according to IEC60715/G32

Plug-in jumper red
(16 poles, 16 A) white
blue

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

CWBK 7-0802 Cat. No. X766802
CWBK 7-0803 Cat. No. X766803
CWBK 7-0804 Cat. No. X766804

APPLICATIONS

The passive galvanic isolators can isolate the signal generated by loop powered sensors, where the applied load must have a resistance lower than 400 Ω 20 mA, including the cable resistance; the applied input voltage has to be higher than 2.7 V compared with output voltage (see note 2). If above conditions are satisfied, passive isolators reduce cabling costs and eliminate power supplies thereby saving costs. If above conditions are not satisfied, passive module introduces a signal attenuation.

figure 1

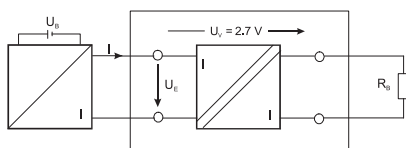


figure 2

