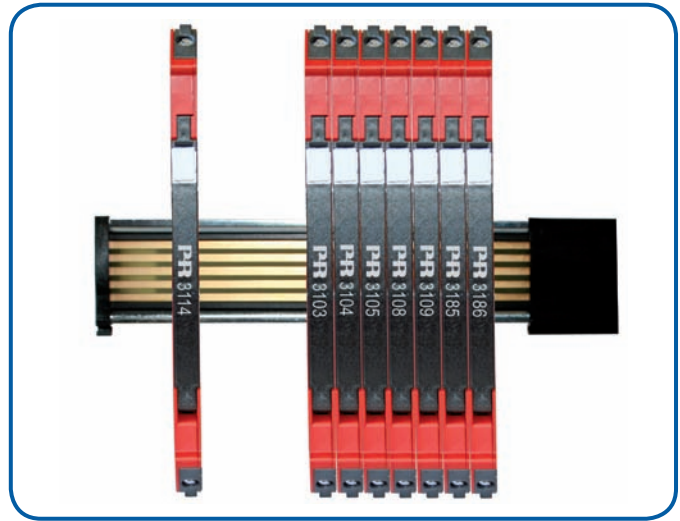




- Isolation and conversion of current signals
- Slimline housing of 6 mm
- Response time < 7 ms
- Splitter function: 1 in - 2 out
- Simple - no setup needed



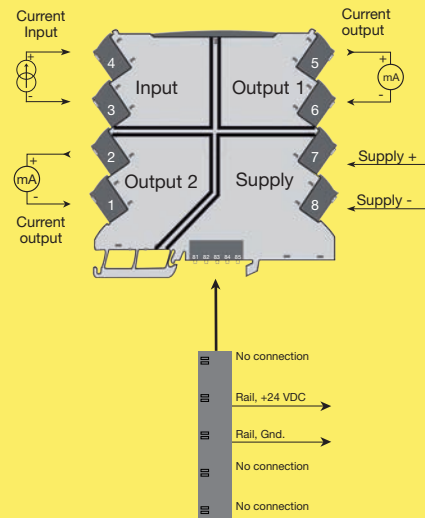
Applications

- Isolation and conversion of standard DC signals.
- Galvanic separation of analogue current signals.
- Elimination of ground loops and measurement of floating signals.
- A competitive choice in terms of both price and technology for galvanic isolation of current signals to SCADA systems or PLC equipment.
- Installation in ATEX Ex zone 2 / IECEx Zone 2 / FM division 2.
- Suitable for environments with high vibration stress, e.g. ships.

Technical characteristics

- The input is protected against overvoltage and polarity error.
- Factory-calibrated measurement ranges.
- Inputs and outputs are floating and galvanically separated.

Connections



**Safe Area or
Zone 2 & Cl. 1, Div. 2, gr. A-D**



QUALITY SYSTEM AND ENVIRONMENTAL MANAGEMENT SYSTEM
DS/EN ISO 9001
DS/EN ISO 14001

For pricing or any further information, please contact Omni Instruments Ltd.

Order codes:

3108 = Isolated Repeater / Splitter

Electrical specifications:

Specifications range..... -25°C to +70°C
Storage temperature -40°C to +85°C
Installation in pollution degree 2 and measurement /
overvoltage category II.

Common specifications:

Supply voltage, DC 16.8...31.2 VDC
Internal consumption, typ./max. 0.4 W / 0.65 W
Power consumption, max 0.8 W
Isolation voltage, test 2.5 kVAC
Working isolation voltage 300 VAC / 250 VAC (Ex)
Accuracy < ±0.05% of span
Temperature coefficient..... < ±0.01% of span / °C

EMC immunity influence < ±0.5% of span
Extended EMC immunity:
NAMUR NE 21, A criterion, burst..... < ±1% of span

Signal / noise ratio..... > 60 dB
Response time (0...90%, 100...10%)... < 7 ms
Calibration temperature..... 20...28°C
Wire size (max.) 0.13 x 2.5 mm² / AWG
26...12 stranded wire
Screw terminal torque 0.5 Nm
Relative humidity < 95% RH (non cond.)
Dimensions (H x W x D)..... 113 x 6.1 x 115 mm
DIN rail type..... EN 60715 - 35 mm
Protection degree..... IP20
Weight 70 g

Accessories:

3405 = Power Connector Unit (for power rail)

9400 = Power Rail

9404 = Module Stop

Current input:

Measurement range 0...20.5 mA
Functional range..... 0...23 mA
Input voltage drop < 1.5 VDC

Current output:

Signal range (span)..... 0...20.5 mA
Load (max.)..... 23 mA / 300 Ω
Load stability ≤ 0.01% of span / 100 Ω
Current limit ≤ 28 mA

of span = 0...20 mA

Approvals:

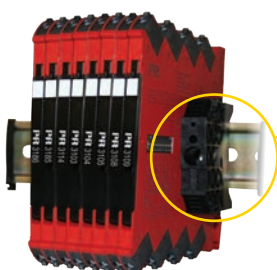
EMC 2004/108/EC EN 61326-1
LVD 2006/95/EC EN 61010-1
UL, Standard for Safety..... UL 61010-1
Safe Isolation..... EN 61140
GOST R

Marine:

Det Norske Veritas, Ships & Offshore Stand. f. Certific. No. 2.4
Germanischer Lloyd VI-7-2

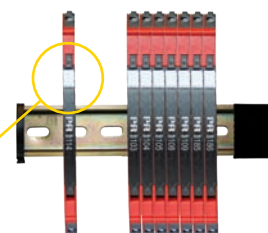
Ex:

ATEX 94/9/EC KEMA 10ATEX0147 X
IECEX..... KEM 10.0068 X
c FM us..... 3041043-C



Installation on a 35 mm DIN rail

The system 3000 devices must be supported by module stops for marine applications - PR part number 9404.



Marking

The front cover of the system 3000 units has been designed with an area for affixation of a click-on marker. The area assigned to the marker measures 5 x 7.5 mm. Weidmüller's MultiCard System markers, type MF 5/7.5, are suitable.