

Isolated repeater / splitter

3108

- 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



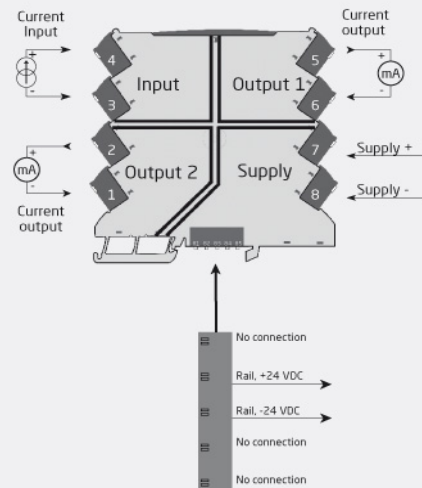
Application

- Isolation and conversion of standard DC signals.
- Galvanic separation of analog 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*

Order:

Type
3108

Environmental Conditions

Specifications range.....	-25°C to +70°C
Storage temperature.....	-40°C to +85°C
Calibration temperature.....	20...28°C
Relative humidity.....	< 95% RH (non-cond.)
Protection degree.....	IP20
Installation in.....	Pollution degree 2 & measurement / overvoltage cat. II

Mechanical specifications

Dimensions (HxWxD).....	113 x 6.1 x 115 mm
Weight approx.....	70 g
DIN rail type.....	DIN EN 60715/35 mm
Wire size.....	0.13 x 2.5 mm ² / AWG 26...12 stranded wire
Screw terminal torque.....	0.5 Nm

Common specifications

Supply voltage.....	16.8...31.2 VDC
Max. power consumption.....	0.8 W
Internal consumption.....	0.4 W (typ.) / 0.65 W (max.)
Isolation voltage, test.....	2.5 kVAC
Isolation voltage, working.....	300 VAC/250 VAC
Signal / noise ratio.....	> 60 dB
Response time (0...90%, 100...10%).....	< 7 ms
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

Input specifications

Current input: Measurement range.....	0...20.5 mA
Functional range, current input.....	0...23 mA
Input voltage drop.....	< 1.5 VDC

Output specifications

Current output: Signal range.....	0...20.5 mA (span)
Load (max.).....	23 mA/300 Ω
Load stability, current output.....	≤0.01% of span/100 Ω
Current limit.....	≤ 28 mA
*of span.....	= 0...20 mA

Approvals

EMC.....	EN 61326-1
LVD.....	EN 61010-1
ATEX.....	KEMA 10ATEX0147 X
IECEx.....	KEM 10.0068X
FM.....	3041043-C
GOST R.....	Yes
DNV Marine.....	Stand. f. Certific. No. 2.4
GL.....	V1-7-2
UL.....	UL 61010-1