

#### 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















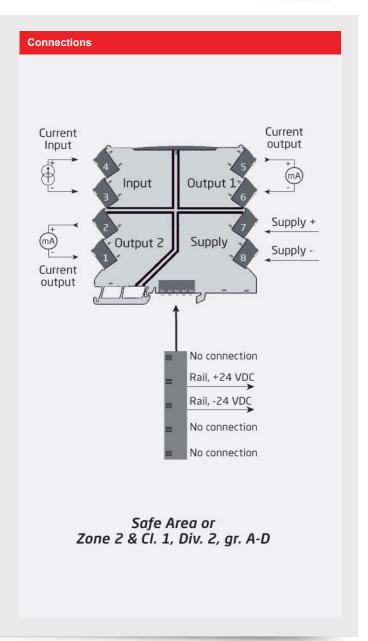




- · Isolation and conversion of standard DC signals.
- · Galvanic separation of analog current signals.
- · Elimination of ground loops and measurement of floating signals.
- · A competitive choice in terms of both price and technology for galvanic isolation of current signals to SCADA systems or PLC equipment.
- Installation in ATEX Ex zone 2 / IECEx Zone 2 / FM division
- · 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.



3108

### **Environmental Conditions**

Specifications range	-25°C to +70°C
Storage temperature	-40°C to +85°C
Calibration temperature	2028°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	
DIN rail type	
	stranded wire
Screw terminal torque	0.5 Nm
Vibration: 225 Hz	±1.6 mm
Vibration: 25100 Hz	±4 g

# **Common specifications**

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Supply voltage	16.831.2 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	
	VAC (Zone 2, Div. 2)
Signal / noise ratio	> 60 dB
Response time (090%, 10010%)	< 7 ms
Accuracy	Better than 0.05% of selected
	range
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	020.5 m/
Functional range, current	
input	023 mA
Input voltage drop	< 1.5 VDC

## **Output specifications**

Current output: Signal range	020.5 mA (span)
Load (max.)	23 mA/300 Ω
Load stability, current output	≤0.01% of span / 100 Ω
Current limit	≤ 28 mA
*of snan	= 0 20 mA

### **Approvals**

EMC	EN 61326-1
LVD 2006/95/EC	EN 61010-1
ATEX 2004/108/EC	KEMA 10ATEX0147 X. II 3 G
	Ex nA IIC T4 Gc
IECEx	KEM 10.0068X
FM	3041043-C
DNV Marine	Stand. f. Certific. No. 2.4
GL	V1-7-2
ÜL	UL 61010-1
EAC TR-CU 020/2011	EN 61326-1
EAC Ex TR-CU 012/2011	RU C-DK.GB08.V.00410
	P337347/1