



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
- · 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.

Connections Current Current Input output Input Output Supply + Supply -Current output No connection Rail, +24 VDC Rail, -24 VDC No connection No connection Safe Area or Zone 2 & Cl. 1, Div. 2, gr. A-D

Type 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	70 g
DIN rail type	DIN EN 60715/35 mm
Wire size	
	stranded wire
Screw terminal torque	0.5 Nm
Vibration: 225 Hz	±1.6 mm
Vibration: 25100 Hz	±4 g

Common specifications

Supply
0

Isolation voltage

Isolation voltage, test /	
working	2.5 kVAC / 300 VAC
•	(reinforced)
Zone 2 / Div. 2	250 VAC

Response timeResponse time (0...90%, 100...10%)...... < 7 ms

Max. required power	0.8 W
Internal consumption	
Signal / noise ratio	> 60 dB
Accuracy	Better than 0.05%
Temperature coefficient	< ±0.01% of span / °C
EMC immunity influence	< ±0.5% of span

Input specifications

Current i	nput
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Measurement range	023 mA
Input voltage drop	< 1.5 VDC

Output specifications

Current output

Ourrent output	
Signal range	023 mA
Load (@ current output)	≤ 300 Ω
Load stability	≤0.01% of span / 100 Ω
Current limit	≤ 28 mA
*of span	= 020 mA

Observed authority requirements

EMC	2014/30/EU
LVD	2014/35/EU
RoHS	2011/65/EU

Approvals

ATEX 2014/34/EU	KEMA 10ATEX0147 X, II 3 G
IFOF.	Ex nA IIC T4 Gc
IECEx	
FM	
DNV Marine	Stand. f. Certific. No. 2.4
GL	V1-7-2
UL	UL 61010-1
EAC	TR-CU 020/2011
EAC Ex TR-CU 012/2011	RU C-DK.GB08.V.00410
CCOE	P337347/1