



Isolated repeater / splitter

3108

- Isolation and conversion of standard DC signals
- Response time <7 ms
- Splitter function: 1 in 2 out
- Simple no setup needed
- Slimline 6.1 mm housing



























Functional highlights

- · Galvanic separation of analog current signals.
- · A competitive choice in terms of both price and technology for galvanic isolation of all signal types to SCADA systems or PLC equipment.
- High 4-port isolation provides surge suppression that protects the control system from transients and noise and eliminates ground
- · All terminals are over-voltage protected, polarity protected and short-circuit protected.
- The device can be mounted in Safe area or in Zone 2 / Division 2 areas and is approved for marine applications.

Technical highlights

- Flexible 24 VDC (±30%) supply via power rail or connectors.
- · Factory-calibrated measurement ranges.
- Fast response time < 7 ms.
- Excellent signal/noise ratio > 60 dB.
- · High galvanic isolation of 2.5 kVAC.
- · Inputs and outputs are floating and galvanically separated.
- A green front LED indicates normal operation and malfunction.
- Wide ambient temperature range: -25...+70°C.

Mounting / installation

- The narrow 6.1 mm housing allows up to 163 units per meter.
- · Units can be mounted side by side, horizontally and vertically, without air gap on a standard DIN rail, even at 70°C ambient temperature.
- Units can be supplied separately or installed on PR 9400 power rail. 10 3108V112-

Applications Current Current Input output Input Output Supply + Supply Output 2 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

Order

Туре	Version	
3108	With power rail connector / terminals	:-
	Supplied via terminals	:-N

Example: 3108-N

Environmental Conditions	
Operating temperature	-25°C to +70°C
Storage temperature	
Calibration temperature	
Relative humidity	
Protection degree	
Installation in	
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	0.132.5 mm ² / AWG 261
	stranded wire
Screw terminal torque	
Vibration	
225 Hz	
25100 Hz	±4 g
Common specifications	
Supply	
Supply voltage	16.831.2 VDC
Max. required power	0.75 W
Max. power dissipation	0.48 W
Isolation voltage	
Isolation voltage, test /	
working	
7 0/8: 0	(reinforced)
Zone 2 / Div. 2	250 VAC
Response time	
Response time (090%, 10010%)	
Signal / noise ratio	
Cut-off frequency (3 dB)	
Signal dynamics, input	
Signal dynamics, output	
Accuracy	
Temperature coefficient	•
EMC immunity influence	< ±0.5% of span
Extended EMC immunity: NAMUR	404 5
NE21, A criterion, burst	< ±1% of span
Input specifications	
Current input	
Measurement range	
Input voltage drop	< 1.5 VDC
Input resistance	Nom. 20 Ω + PTC 50 Ω

Output specifications

Current output			
Signal range	023 mA		
Load (@ current output)	≤ 300 Ω		
Load stability	≤ 0.002% of span / 100 Ω		
Current limit	≤ 28 mA		
of span	= 020 mA		
I.S. / Ex marking			
ATEX	II 3 G Ex ec IIC T4 Gc		
IECEx	Ex ec IIC T4 Gc		
FM, US			
	or Cl. I, Zone 2, AEx nA IIC T4		
FM, CA			
	or Cl. I, Zone 2, Ex nA IIC T4		
Observed authority requirements			
EMC			
LVD	2014/35/EU & UK SI 2016/1101		
ATEX	2014/34/EU & UK SI 2016/1107		
RoHS	2011/65/EU & UK SI 2012/3032		
EAC	TR-CU 020/2011		
EAC Ex	TR-CU 012/2011		
Approvals			
ATEX	KEMA 10ATEX0147 X		
IECEx	KEM 10.0068X		
UKEX	DEKRA 21UKEX0055X		
c FM us			
	FM17CA0003X		
c UL us, UL 61010-1			
CCC			
EAC Ex			
DNV Marine	TAA00001RW		