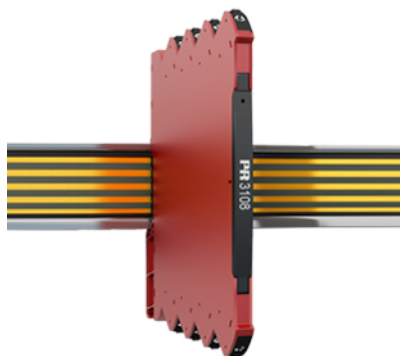




Isolated repeater / splitter

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 loops.
- 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.

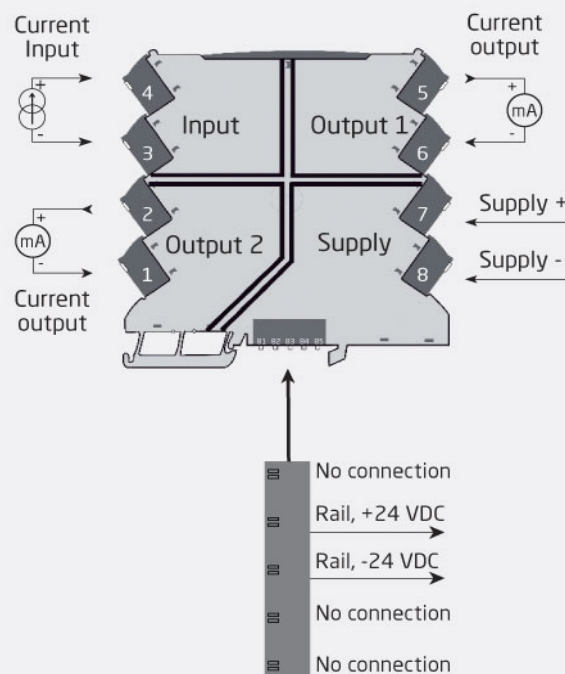
Technical highlights

- Flexible 24 VDC ($\pm 30\%$) 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



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

Order

Type	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.....	-40°C to +85°C
Calibration temperature.....	20...28°C
Relative humidity.....	< 95% RH (non-cond.)
Protection degree.....	IP20
Installation in.....	Pollution degree 2 & meas. / 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...2.5 mm ² / AWG 26...12 stranded wire
Screw terminal torque.....	0.5 Nm
Vibration.....	IEC 60068-2-6
2...25 Hz.....	±1.6 mm
25...100 Hz.....	±4 g

Common specifications

Supply

Supply voltage.....	16.8...31.2 VDC
Max. required power.....	0.75 W
Max. power dissipation.....	0.48 W

Isolation voltage

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

Response time

Response time (0...90%, 100...10%).....	< 7 ms
Signal / noise ratio.....	> 60 dB
Cut-off frequency (3 dB).....	> 100 Hz
Signal dynamics, input.....	Analog signal chain
Signal dynamics, output.....	Analog signal chain
Accuracy.....	Better than 0.05%
Temperature coefficient.....	< ±0.01% of span / °C
EMC immunity influence.....	< ±0.5% of span
Extended EMC immunity: NAMUR NE21, A criterion, burst.....	< ±1% of span

Input specifications

Current input

Measurement range.....	0...23 mA
Input voltage drop.....	< 1.5 VDC
Input resistance.....	Nom. 20 Ω + PTC 50 Ω

Output specifications

Current output

Signal range.....	0...23 mA
Load (@ current output).....	≤ 300 Ω
Load stability.....	≤ 0.002% of span / 100 Ω
Current limit.....	≤ 28 mA
of span.....	= 0...20 mA

I.S. / Ex marking

ATEX.....	II 3 G Ex ec IIC T4 Gc
IECEx.....	Ex ec IIC T4 Gc
FM, US.....	Cl. I, Div. 2, Gp. A, B, C, D T4 or Cl. I, Zone 2, AEx nA IIC T4
FM, CA.....	Cl. I, Div. 2, Gp. A, B, C, D T4 or Cl. I, Zone 2, Ex nA IIC T4

Observed authority requirements

EMC.....	2014/30/EU & UK SI 2016/1091
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.....	FM17US0004X / FM17CA0003X
c UL us, UL 61010-1.....	E314307
CCC.....	2020322310003554
EAC Ex.....	EAEU KZ 7500361.01.01.08756
DNV Marine.....	TAA00001RW