

Loop-powered isolator

6185

- 1-, 2- and 4-channel galvanic isolation
- Slimline channel width of less than 6 mm
- No separate supply necessary
- Low response time
- High noise suppression

ERI C€

Application

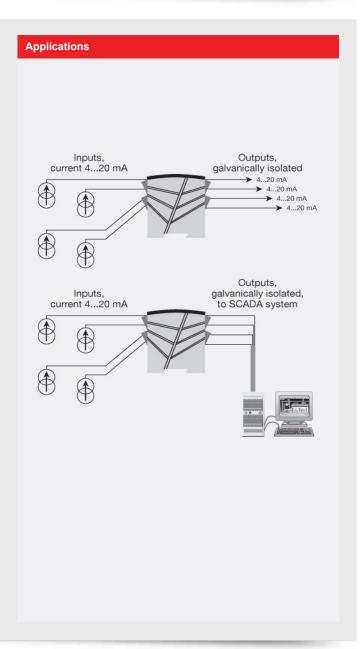
- · Galvanic separation of analog current signals.
- Elimination of ground loops and measurement of floating signals.
- A competitive choice in terms of both price and technology for galvanic isolation of current signals to SCADA systems or PLC equipment.
- Especially useful in applications necessitating an unproblematic transmission of current signals according to NAMUR (sensor error detection).

Technical characteristics

- PR 6185 is powered by the measured signal and loads the loop with max. 1.8 VDC.
- The input is protected against overvoltage and polarity error.
- The drop voltage for each channel can be calculated according to the following expression: Vdrop = 1.8 + (lout. * Rload.
- The output is voltage-limited to 15 VDC.
- Inputs and outputs are floating and galvanically separated.

Mounting / installation

 Mounted vertically or horizontally on a DIN rail. As the devices can be mounted without distance between neighboring units, up to 168 channels can be mounted per meter.



Order:

Туре	Channels	
6185	1 channel	: A
	2 channels	: B
	4 channels	: D

Environmental Conditions

Operating temperature	-20°C to +60°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP20

Mechanical specifications

Dimensions (HxWxD)	109 x 23.5 x 104 mm
Weight approx	155 / 180 / 230 g (1 / 2 / 4
3 11	channels)
DIN rail type	DIN 46277
Wire size	1 x 2.5 mm ² stranded wire
Screw terminal torque	

Common specifications

Isolation voltage

Test voltage...

Response time

Response time (0...90%, 100...10%)...... < 4 ms

Voltage drop..... < 1.8 VDC, min. EMC immunity influence..... < ±0.5% of span

Input specifications

Current input

Measurement range...... 0...23 mA

Output specifications

Current output	
Signal range	. 023 mA
Min. signal range	. 1:1
Load (@ current output)	. ≤ 600 Ω
Load stability	< 0.03% of span / 100 Ω
Current limit	. 50 mA
Voltage limit	15 VDC
of span	

range

Observed authority requirements

EMC	2014/30/EU
EAC	TR-CU 020/2011