

SIGNAL CONDITIONERS

Passive Loop Powered Isolator

DR910

\$215



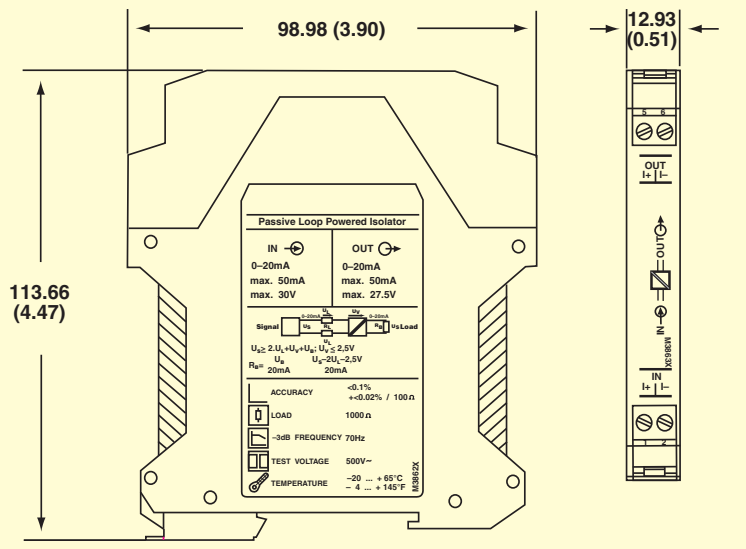
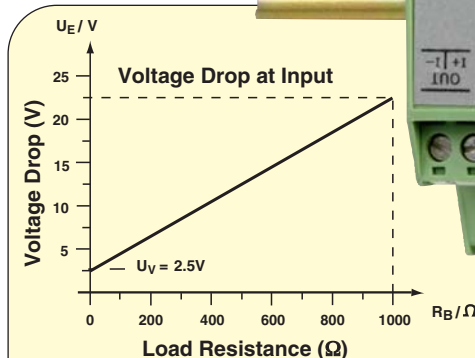
- ✓ Loop Powered
- ✓ Isolated
- ✓ 0 to 20 mA and 4 to 20 mA Ranges
- ✓ DIN Rail Mountable

The DR910 passive isolator is used for the electrical isolation and processing of analog 0 to 20 mA or 4 to 20 mA standard current signals. The DR910 provides electrical isolation between the control electronics and process I/O. In addition, interference signals above 75 Hz are effectively suppressed. Input and output circuit do not require separate auxiliary power. The DR910 obtains power from the input signal. The modules are snapped onto symmetrical DIN rails in accordance with EN 50 022.

When using the DR910, ensure that the current-driving voltage of the measuring transducer is sufficient for driving the maximum current of 20 mA, with a power loss of 2.5 V (2.5 V + (20 mA * RLOAD)). Voltage drop across the input is calculated by determining the load resistance of the output loop, drawing a vertical line to the curve (see diagram), then horizontally to the voltage drop. The energy for the supply on the input side is taken from the analog input signal. Due to the dynamic input resistance, a power loss of approximately 2.5 V drops at the module input.

Specifications

- Input Range:** 0 to 20 mA, 4 to 20 mA
- Maximum Input Current/Voltage:** 50 mA/30 Vdc
- Input Resistance @ 20 mA:** 125 to 1125 Ω (dependent on load)
- Voltage Drop at Input:** See chart
- Max Input Frequency:** <75 Hz
- Response Time:** 5 msec max
- Output Signal:** 0 to 20 mA, 4 to 20 mA
- Max Load Resistance:** $\leq 1375 \Omega$ @ 20 mA
- Isolation Voltage:** 510V, 50 Hz, for 1 minute
- Accuracy:** $\leq 0.1\%$ of full scale
- Operating Temperature:** -10 to 70°C (14 to 158°F)
- Temperature Coefficient:** $\leq 0.002\%/K$ of the measured value



DR910, loop powered isolator, \$215, shown smaller than actual size.

RAIL-32-2 DIN rail, \$15 sold separately, shown smaller than actual size.

Enclosure: Case body is green, Polyamide PA
Mounting: Standard DIN style rail, including top hat (T) profile rail according to EN50022—35 x 7.5 and 35 x 15, and G profile rail according to EN50035—G32
Weight: 84.4 g (3 oz)



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
DR910	\$215	Passive loop powered isolator
RAIL-35-1	10	35 mm (1.4") DIN rail, 1 m (3.3') length
RAIL-35-2	15	35 mm (1.4") DIN rail, 2 m (6.6') length

Comes with complete operator's manual.

Ordering Example: DR910, passive loop powered isolator and OMEGACARESM 1 year extended warranty for DR910 (adds 1 year to standard 1 year warranty), \$215 + 22 = \$237.



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