Features

- 1-channel
- Loop powered
- Magnetic pickup switch input
- Switching frequency max. 15 kHz
- NAMUR output

Function

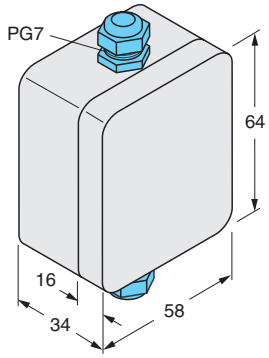
This magnetic pickup-NAMUR device converts the alternating voltage signals produced by magnetic-inductive sensors into NAMUR-compliant signals according to EN 60947-5-6.

The signals from magnetic inductive sensors are then able to be evaluated by devices with NAMUR inputs, such as switch amplifiers.

The switching frequency must not exceed a maximum of 15 kHz. The F-MPN-1 is powered from the NAMUR circuit and requires no external supply.

The connection leads are fed into the aluminum die-cast housing via two PG cable glands.

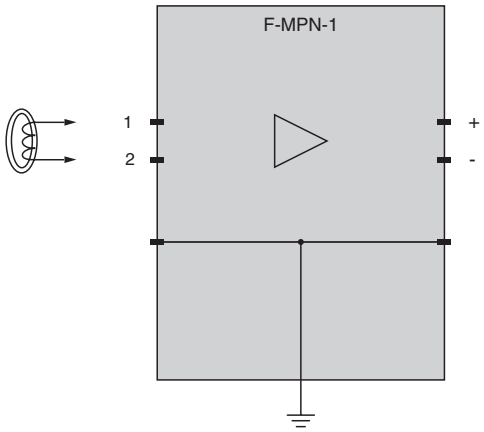
Dimensions



Technical data

Supply	
Rated voltage	supply via NAMUR circuit 7.7 ... 24 V
Input	
Signal level	> 100 mV_{pp}
Input resistance	5 kΩ
Input frequency	≤ 15 kHz
Resistance	< 30 V_{pp}
Output	
Internal resistor	≤ 1050 Ω
Signal level	0-signal: ≤ 1.2 mA 1-signal: ≥ 2.1 mA
Directive conformity	
Electromagnetic compatibility	
Directive 89/336/EC	EN 61326
Conformity	
Protection degree	IEC 60529
Ambient conditions	
Ambient temperature	-25 ... 60 °C (248 ... 333 K)
Mechanical specifications	
Protection degree	IP65
Dimensions	58 x 64 x 34 mm (2.3 x 2.5 x 1.3 in)

Electrical connection



Release date 2008-12-05 14:01 Date of issue 2008-12-05 115147_ENG.xml