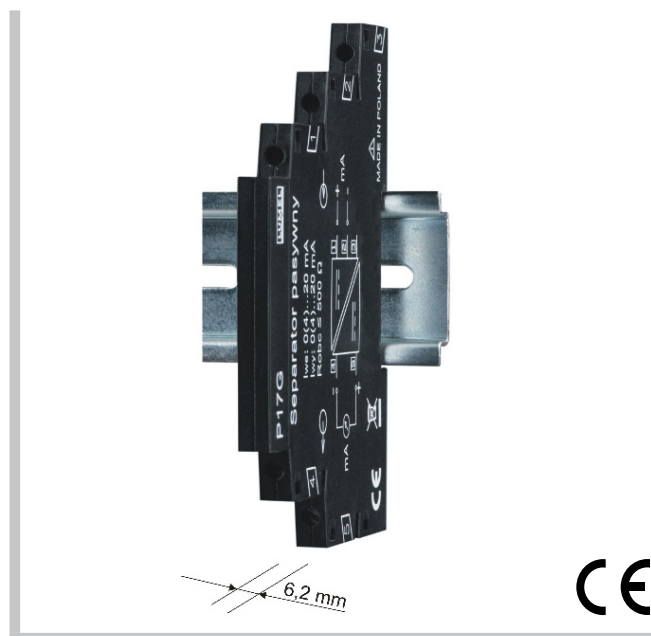


# PASSIVE SEPARATOR P17G TYPE SUPPLIED BY A CURRENT LOOP



- length of wire without isolation 6 mm
- housing material polyester PBT, black
- weight 80 g
- fixing on a 35 mm rail support acc. to EN 60715

- Input:**
- range of the input signal 0...20 mA, (4...20 mA)
  - response current ca. 150  $\mu$ A
  - maximal input current/overload 40 mA

- Output:**
- range of the output signal 0...20 mA, (4...20 mA)
  - load resistance  $R_o$  0...100...500  $\Omega$
  - ripples  $\leq 10$  mV

- Additional errors**
- from load resistance changes  $\leq 0.15\%/100 \Omega$
  - from ambient temperature changes  $\leq 0.05\%/10^\circ\text{C}$

- Electromagnetic compatibility:**
- noise immunity acc. EN 61000-6-2
  - noise emissions acc. EN 61000-6-4

- Safety requirements acc. to EN 61010-1**
- installation category III
  - pollution grade 2
  - phase-to-earth working voltage 50 V

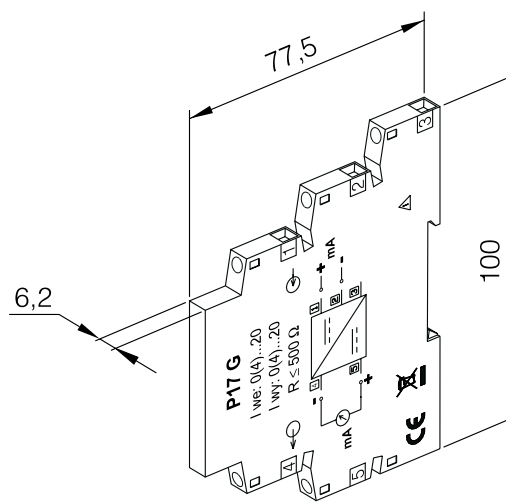
## 1. APPLICATION

The P17G passive separator in a housing of 6.2 mm width and supplied from a current loop, serves to the electric isolation and filtration of the 0(4)... 20 mA standard signal value without an additional supply voltage.

## TECHNICAL DATA

### Basic parameters:

- conversion error  $\pm 0.2\%$
- limit frequency (-3 dB) 70 Hz
- response time (10...90%),  $R_o = 500 \Omega$  5 ms
- voltage fastness (testing) inp/out 500 V, 50 Hz, 1 min.
- preheating time of the separator not occurs
- ambient temperature - 20...23...65°C
- storage temperature - 40...+ 85°C
- relative air humidity < 95% (condensation - inadmissible)
- operating position any
- guaranteed protection class IP 50 (housing)  
IP 20 (electrical connections)
- dimensions (6.2 x 77.5 x 100) mm
- kind of terminals screw terminals
- diameter of connecting wires 0.2...2.5 mm<sup>2</sup> (AWG24-12)



**Fig. 1 View and overall dimensions of the P17G passive separator**

## ELECTRICAL CONNECTIONS

The connection diagram of the passive separator is presented on the fig. 2.

In case of separator operation in an environment with high interference, one must apply shielded wires.

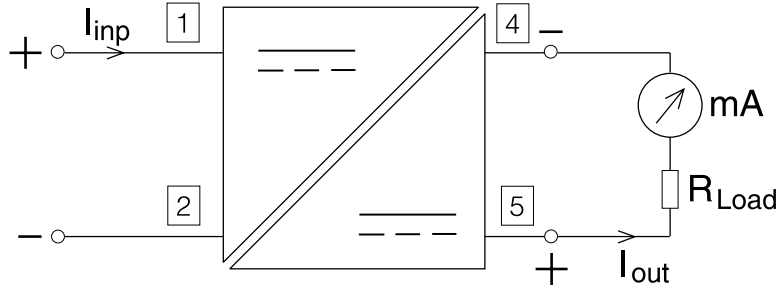


Fig. 2. Electrical connections of the P17G separator

## ORDER CODES

Passive separator	P17G -	XX	X
<b>Version:</b>			
standard .....		00	
on order* .....		XX	
<b>Acceptance tests:</b>			
without additional requirements .....		8	
with an extra quality inspection certificate .....		7	
acc. to customer's agreement* .....		X	

\* after agreeing with the manufacturer.

### Ordering example:

The code: **P17G-00-7** means:

- P17G** – passive operator of P17G type
- 00** – standard version
- 7** – delivered with an extra quality inspection certificate.