# WAVESERIES - DC/DC passive isolator

Output-current loop-powered

- Galvanic isolation
- Very low power consumption
- Input range selected via DIP switch
- No calibration necessary
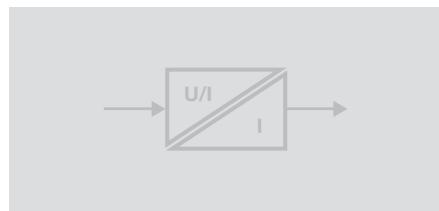
OLP
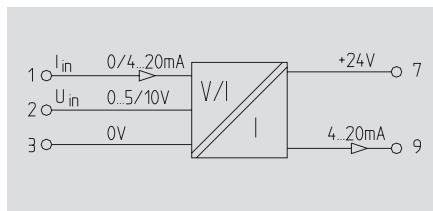
Technical data

Input	
Input voltage	0...(5)10 V
Input resistance, voltage/current	0...5V: 210 kΩ; 0...10V: 430 kΩ / 51 Ω
Input current	0(4)...20 mA
Rated current	40 mA
Output	
Output current	Current loop
Output signal limit	Approx. 31 mA
Load impedance, voltage/current	/ R_L = (U_B-12 V) / 20 mA z.B. 600 Ω at 24 V
Cut-off frequency (-3 dB)	10 Hz/ 100 Hz switchable
General data	
Supply voltage	min. 12 V DC/ max. 30 V DC
Ambient temperature	0 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Default setting	0...20mA, 10 Hz
Accuracy	0.2% of measuring range final value
Temperature coefficient	≤ 150 ppm/K
Step response time	< 10 Hz: 80 ms; 100 Hz: 50 ms
Approvals	cULus; CE
Insulation coordination	
Standards	EN 50178
EMC standards	EN 55011, EN 61000-6
Rated voltage	300 V
Impulse withstand voltage	4 kV
Insulation voltage	4 kV$_{eff}$ / 5 s
Overvoltage category	III
Pollution severity	2
Clearance & creepage distances	≥ 5.5 mm

Setting options/switch position

	SW 1			
Input	**1**	**2**	**3**	**4**
0 … 20 mA	□	□	□	□
4 … 20 mA	■	□	□	□
0 … 5 V	■	■	■	□
0 … 10 V	□	■	□	□
Transmission frequency				
10 Hz	□	□	□	■
100 Hz	□	□	□	□

■ = on
□ = off

Example of application
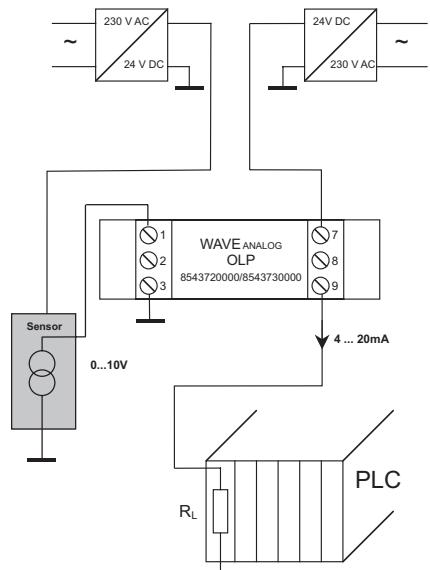
Dimensions		
Clamping range (nominal / min. / max.)	mm²	
Length x width x height	mm	
Note		

Screw connection	Tension clamp connection
2.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
92.4 / 17.5 / 112.4	92.4 / 17.5 / 112.4

Ordering data

	Type	Qty.	Order No.
Screw connection	WAS5 OLP	1	8543720000
Tension clamp connection	WAZ5 OLP	1	8543730000

Note

Accessories

Markers – refer to Accessories.