

Current and voltage measuring technology

Passive AC current transducers, sinusoidal

The **MCR-SLP-1-5-UI-0** passive current transducer measures sinusoidal alternating currents within the range 0 ... 1 A/0 ... 5 A.

- Loop-powered
- Measuring ranges 1 A and 5 A AC, reconnectable

Notes:

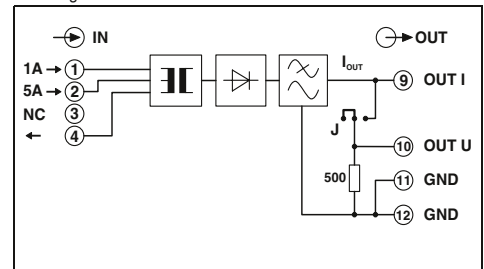
1) EMC: Class A product, see page 571



For sinusoidal alternating currents
0 ... 1 A/0 ... 5 A



Housing width 22.5 mm



Technical data

	1 A input	5 A input
Input current	0 A AC ... 5 A AC	0 A AC ... 0.005 A AC
Frequency range	45 Hz ... 60 Hz	45 Hz ... 60 Hz
Curve type	Sine	Sine
Overload capacity	2 x I _N (5 min. at 60°C ambient temperature)	-
Surge strength	50 A (1 s)	100 A (1 s)
Permissible output range	1.2 x I _N	1.2 x I _N
Connection method	Screw connection	Screw connection
Output data	U output	I output
Output signal	0 ... 10 V	0 ... 20 mA
Maximum output signal	20 V	30 mA
Load R _B	> 100 kΩ	< 750 Ω < 250 Ω (when current and voltage outputs are used simultaneously)
Ripple	< 50 mV _{pp}	< 50 mV _{pp}
General data		
Maximum transmission error	< 0.5% (of final value)	
Temperature coefficient	< 0.015%/K	
Step response (10 - 90%)	< 200 ms	
Safe isolation	as per EN 50178, EN 61010	
Rated insulation voltage	300 V AC (to ground)	
Surge voltage category / pollution degree	III / 2	
Test voltage input/output	4 kV (50 Hz, 1 min.)	
Degree of protection	IP20	
Ambient temperature range	-25°C ... 60°C	
Dimensions W / H / D	22.5 / 99 / 114.5 mm	
Screw connection solid / stranded / AWG	0.2 ... 2.5 mm ² / 0.2 ... 2.5 mm ² / 24 - 14	
Conformance / approvals	CE-compliant	

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
MCR passive current measuring transducers for sinusoidal alternating currents	MCR-SLP-1-5-UI-0	2814359	1