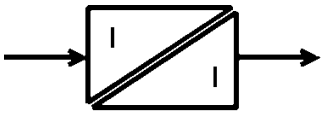
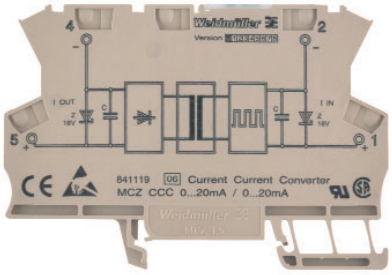
Passive Isolator

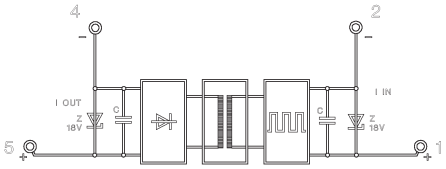
MCZ CCC 0…20 mA/0…20 mA



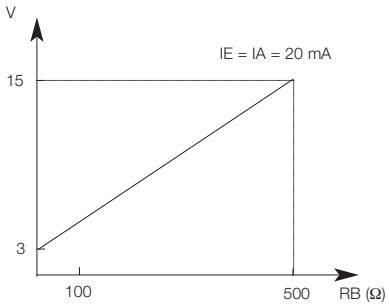


This module is a reasonably priced passive separator for galvanically separating standard 0.4…20 mA signals.
It draws its power from the measurement signal and requires no further auxiliary power.
The measurement signal is transmitted 1:1.
The module is distinguished by its low power consumption as well as a response current <100 µA.

Block diagram



Working resistance diagram



Ordering data	Type	Part No.
for TS 35	MCZ CCC 0…20 mA/0…20 mA without power supply	**8411190000**

Technical data	
Input	**0…20 mA (max. 15 V)**
Response current	< 100 µA
Voltage drop	2.5…3 V (at 20 mA)
Max. overload capacity at input	50 mA, 15 V
Output	**0…20 mA (max. 10 V)**
Set time (T99)	approx. 5 ms at 500 Ω working resistance impedance
Residual ripple	< 10 mV_{eff}
Chopper frequency	approx. 200 kHz
Transmission error	< 0.1% from end value, + 0.05% from mean/100 Ω working resistance
Temperature effect	< 50 ppm/K from measurement value for working resistance 0 Ω
Voltage strength	
Input/output	510 V_{eff}
EMC	EMVG
	EN 50081-1
	EN 50082-2
Approvals	CE, UL, CSA
Ambient temperature	
- assembled without spacing	-25°C…+40°C
- assembled with 20 mm (.79 in.) spacing	-25°C…+50°C
Storage temperature	-40°C…+85°C
Conductor	AWG 22…12
Conductor cross-section	1.5 mm^2 (16 AWG)
Overall width mm (in.)	6 (.24)

Dimensions and accessories see Page 363