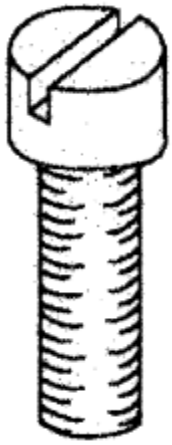
0811

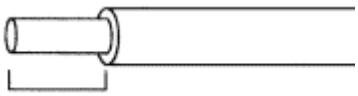
MCR-CP-I/I-00

with signal conversion: 0(4)…20 mA / 0(4)...20 mA

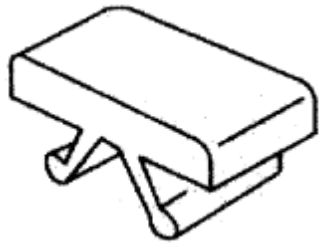
A V



M 3



8



"...5"

(IEC) [mm^2]	rigid solid	flexible stranded	AWG
Connection data			
UEGM housing	0.2-2.5	0.2-2.5	24-14
Base terminal blocks	0.2-4	0.2-4	24-12

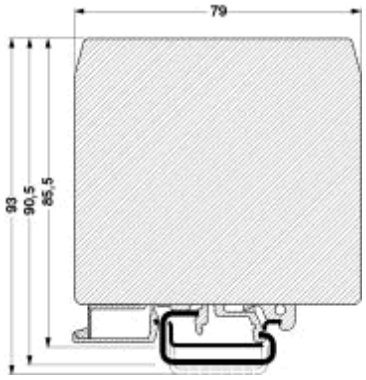
Description	Input signal I_E	Output signal I_A/U_A	Type	Order No.	Pcs. Pkt.
MCR (passive) loop-powered isolator, for analog signal isolation without additional energy	0(4)…20 mA	0(4)…20 mA	**MCR-CP-I/I-00**	**27 69 58 5**	1

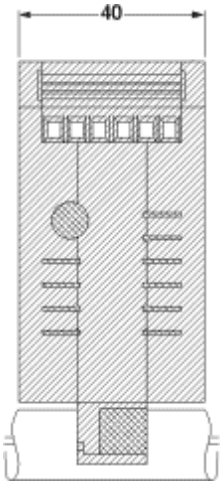
Technical data

Measurement (input)	
Input signal	0(4)…20 mA
Max. input current I_E	50 mA
Max. input voltage	25 V
Min. input voltage U_E	6.5 V
Voltage dissipation U_V	< 3.1 V
Measurement (output)	
Output signal	0(4)…20 mA
Output voltage	$U_A = I_A \times R_B$
Transmission error	± 0.3 %; typ. ± 0.1% for 1000 Ω
Line/load resistance	≤ 1000 Ω
Influence line/load resistance	- 0.0004 %/Ω
Temperature coefficient	≤ 0.01 %/K; typ. ≤ 0.003 %/K
Limit frequency	35 Hz
Test voltage: input/output	3 kV, 50 Hz, 1 min
Ambient temperature range	0°C to + 55°C
General data	
Type of protection	IP 40, terminal blocks IP 20

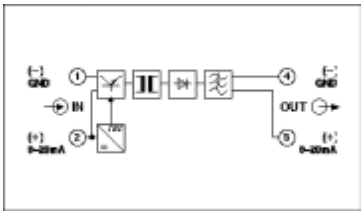
Type of housing
Polyamide PA non-reinforced, see product-line info
color: green
Torque value of terminals, see product-line info.
The rated cross section (see product-line info) refers to untreated conductors without ferrules.

Dimensional drawing

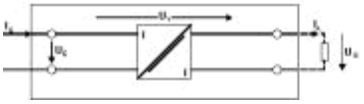




Block diagram



$0\ \Omega \le R_B \le 170\ \Omega$: $U_E = 6,5\ V$
$170\ \Omega \le R_B \le 1000\ \Omega$: $U_E = 6,5\ V + 0,02\ A \times (R_B - 170\ \Omega)$



Diagram

Input voltage dependent on the line/load resistance