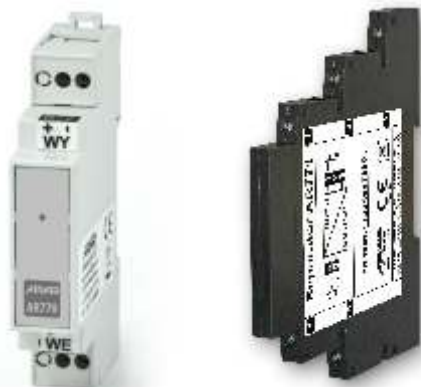# AR770, AR771
Galvanic separator

APAR

AR770   AR771

Galvanic separation of current loop circuits, passive separator, requires no power

- linear conversion of current signal 0÷22mA
- into current signal 0÷22mA
- power supply from current loop
- galvanic separation of current loop circuits without power supply
- housing for mounting on DIN rail
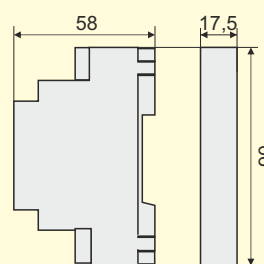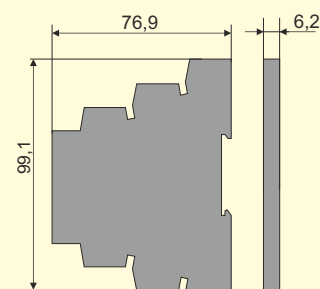- high accuracy and immunity to interference

How to order

AR770
AR771

Technical data

Technical data		
Current input I$_{in}$		0÷22 mA
- input voltage		3V + I$_{out}$ x R$_{obc}$
- overvoltage protection		18 V
- reverse polarity protection		
Current output I$_{out}$		0÷22 mA
- load resistance R$_{obc}$		0...100...500 Ω
Permissible overload		40 mA
Processing error (without overload)		
- for load resistance 0 ≤ Robc < 250Ω		≤ 0,1% to 24mA
- for load resistance 250 ≤ Robc < 400Ω		≤ 0,2% to 25mA
- for load resistance 400 ≤ Robc < 500Ω		≤ 0,3% to 24mA
- impact of ambient temperature changes		≤ 0,005% /°C
Withstand voltage	**- AR770**	1500 V, 50 Hz, 1 min
	- AR771	500 V, 50 Hz, 1 min
Rated operational conditions		0 ÷ 65 °C, 0 ÷ 95 %RH (non-condesing)
Protection rating		IP50 (housing), IP20 (terminals)
Wieght		~ 35g
Electromagnetic Compatibility (EMC):		- immunity: acc. to PN-EN 61000-6-2
		- emissivity: acc. to PN-EN 61000-6-4

Dimensions, Installation data

	AR770	AR771
Dimensions	17,5x90x58 mm	6,2x76,9x99,1 mm
Fixing methods	on a 35 mm DIN rail	
Material	NORYL 94V-0	polyamide (UL94V-0)

AR770   AR771

Terminal strips and Electrical connections

For currents <0.4mA use R$_{obc}$ with RC filter (> 200msek, e.g. 200kW - 1mF) or stronger digital filtration

AR770

IN
OUT

−I$_{out}$ 7 4 −I$_{in}$
+I$_{out}$ 6 3 +I$_{in}$
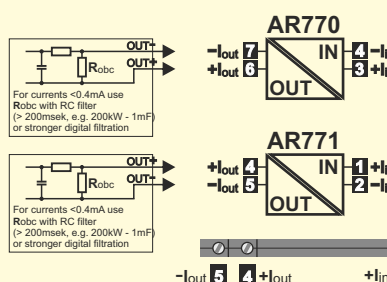
terminal	description
3	+ current input
4	- current input
6	+ current output
7	- current output

AR771

IN
OUT

+I$_{out}$ 4 1 +I$_{in}$
−I$_{out}$ 5 2 −I$_{in}$

terminal	description
1	+ current input
2	- current input
4	+ current output
5	- current output

−I$_{out}$ 5 4 +I$_{out}$ +I$_{inp}$ 1 2 −I$_{inp}$

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