MACX-MR-C-10 - Monitoring relay

1336510

https://www.phoenixcontact.com/au/products/1336510

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Current monitoring relay, 24 V AC/DC … 240 V AC/DC wide range power supply, with adjustable threshold values, response delay, and the functions can be selected by configuration.

Commercial data

Item number	1336510
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DK6612
Product key	DK6612
GTIN	4063151637057
Weight per piece (including packing)	208 g
Weight per piece (excluding packing)	195 g
Customs tariff number	85364900
Country of origin	CN

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Technical data

Product properties

Product type	Current monitoring relay
Operating mode	Closed circuit or wire break

Insulation characteristics: Railway standard

Overvoltage category	III
Pollution degree	3

Electrical properties

Rated impulse withstand voltage	6 kV
Service life electrical	approx. 1x 10^5 cycles, resistive load 2000 V A
Maximum power dissipation for nominal condition	15 W
Mains type	1-phase

Railway standard

Rated insulation voltage	600 V

Electrical isolation

Electrical isolation	300 V

Supply

Supply voltage range	24 V AC ... 240 V AC -15 % ... +10 %
	24 V DC ... 240 V DC -25 % ... +30 %
Nominal power consumption	15 VA (1.5 W)

Input data

Input name	Measuring input
Measured value	DC, AC sine (40 Hz ... 500 Hz)
Input current range	0 A AC/DC ... 10 A AC/DC
Overload capacity	15 A AC/DC
Input resistance current input	5 mΩ
Frequency range	48 Hz ... 400 Hz
Maximum temperature coefficient	0.05 %/K
Setting range for response delay	0 s ... 99.9 s
Function	Undercurrent
	Overcurrent
	Window
Basic accuracy	1 % (>1A, ±10mA (0…1A))
Repeat accuracy	0.5 %
Recovery time	200 ms

Output data

Switching

Contact switching type	2 floating changeover contacts
Contact material	$AgSnO_2$
Maximum switching voltage	250 V AC
Interrupting rating (ohmic load) max.	2000 VA (8 A/250 V AC)
Output fuse	8 A (fast-blow)

Connection data

Connection method	Screw connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm (5 lb in ... 7 lb in)

Dimensions

Width	22.5 mm
Height	109 mm
Depth	114 mm

Material specifications

Flammability rating according to UL 94	V0
Housing insulation material	PBT

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP40 (Housing)
	IP20 (Connection terminal blocks)
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 %

Approvals

CE

Identification	CE-compliant

UL, USA/Canada

Identification	UL/C-UL Listed UL 508

CCC

Identification	GB/T 14048.5

Electronic devices in rail vehicles

Operating temperature class	OT4
Class of extended operating temperature upon activation	ST2
Temperature change class	H1

Interruption of the power supply/supply changeover	S2
	S3/C1
	C2
Hazard levels	HL1
	HL2
	HL3
Protective coating	PC2
Shock (operation)	Category 1
Vibration (operation)	Class B

EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2

Noise emission	
Standards/regulations	EN 61000-6-4

Standards and regulations

Railway standard	
Standard designation	EN 50155, GB/T 25119

Mounting

Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

Drawings

Schematic diagram
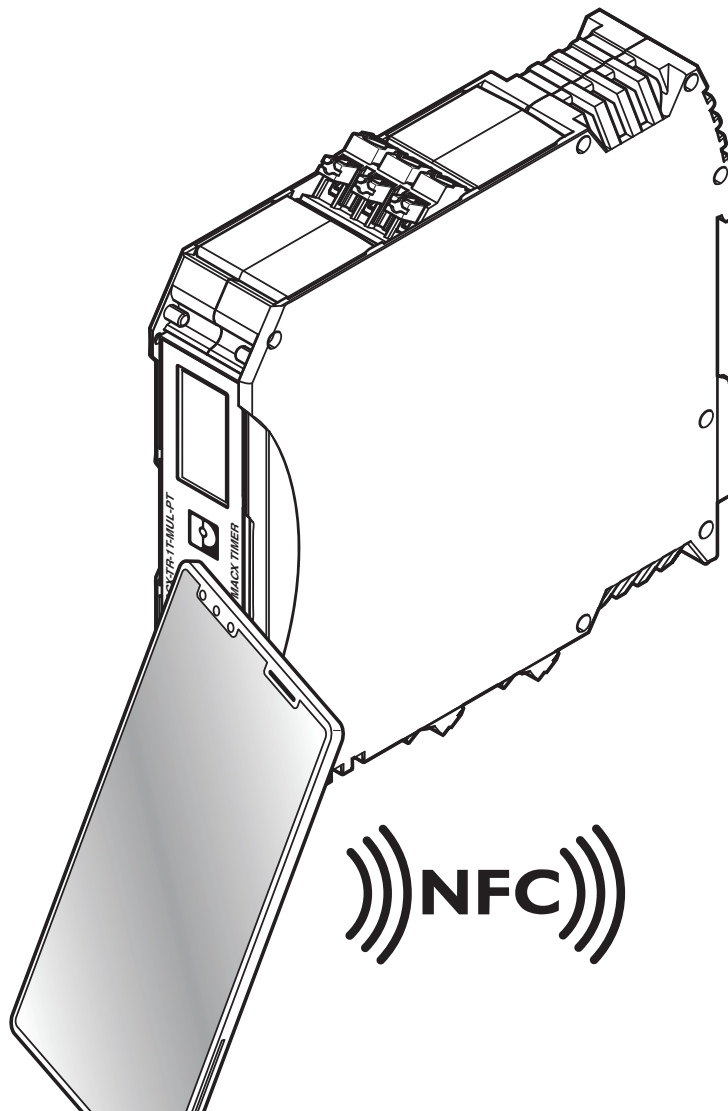
Block diagram

I

GND

A1

A2

U=24...240 V AC/DC

16 18

15

26 28

25
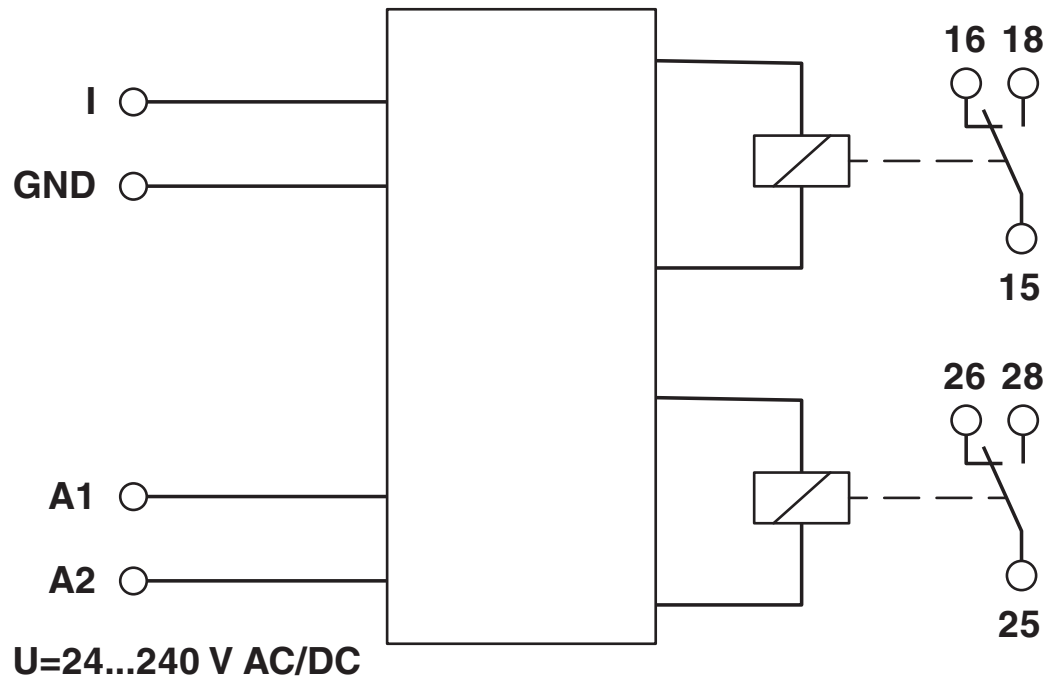
Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/1336510

CCC
Approval ID: 2024010303656845

cULus Listed
Approval ID: E172140

Classifications

ECLASS

ECLASS-13.0	27371802

ETIM

ETIM 9.0	EC001440

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	5b3b8edf-8382-47bc-b4de-a2a5962ab0aa