

FA MCR-FMR-22K-680-IP20-PT - Resistor network



1642714

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Resistor network 22 k Ω parallel, 680 Ω in series for monitoring floating contacts and proximity switches. Line fault monitoring via isolation amplifiers or digital inputs in accordance with NAMUR IEC/EN 60947-5-6.

Commercial data

Item number	1642714
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C401
Product key	DK114Z
GTIN	4067923170544
Weight per piece (including packing)	6.9 g
Weight per piece (excluding packing)	5.6 g
Customs tariff number	85332100
Country of origin	US

Technical data

Product properties

Product type	Resistor network
Product family	Field Analog

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Supply

Voltage	≤ 12 V DC
Current	≤ 24 mA
Power consumption (Resistance)	0.3 W (parallel)
	0.5 W (In series)

Input data

Signal

Available input sources	floating switch contacts
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Output data

Signal

Transmission Behavior	1:1 to the input signal + resistance values
Resistance	22 kΩ (parallel)
	680 Ω (In series)

Connection data

Connection method	Push-in spring connection
Stripping length	8 mm
Conductor cross-section rigid	0.2 mm ² ... 1.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 1.5 mm ² (Ferrule without plastic sleeve)
	0.2 mm ² ... 0.75 mm ² (Ferrule with plastic sleeve)
Conductor cross-section AWG	24 ... 16
Pitch	3.5 mm

Dimensions

Width	35.1 mm
Height	14.2 mm
Depth	14.2 mm

Material specifications

Color	gray (RAL 7042)
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Flammability rating according to UL 94	V0 (Housing)
Housing material	PA 6.6-FR

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (not assessed by UL)
Ambient temperature (operation)	-40 °C ... 80 °C (Any mounting position)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	0 % ... 95 % (non-condensing)

Altitude range (≤ 2000 m)

Altitude	≤ 2000 m
Ambient temperature (operation)	-40 °C ... 80 °C

Altitude range (≤ 3000 m)

Height range	≥ 2000 m ... 3000 m
Ambient temperature (operation)	-40 °C ... 72 °C

Altitude range (≤ 4000 m)

Height range	≥ 3000 m ... 4000 m
Ambient temperature (operation)	-40 °C ... 64 °C

Altitude range (≤ 5000 m)

Height range	≥ 4000 m ... 5000 m
Ambient temperature (operation)	-40 °C ... 56 °C

Approvals

CE

Certificate	CE-compliant
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Classifications

ECLASS

ECLASS-13.0	27260114
ECLASS-15.0	27260114

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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.)	No substance above 0.1 wt%
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