

## Single relay - REL-MR 4,5DC/21AU - 2961370

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Plug-in miniature power relay, with multi-layer gold contact, 1 PDT, input voltage 4.5 V DC

### Product Features

- ✓ Safe isolation according to DIN EN 50178 between coil and contact
- ✓ High degree of protection, up to RT III (comparable with IP67) depending on type
- ✓ Power contacts up to 6 A



### Key commercial data

Packing unit	1 pc
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	16.53 GRM
Custom tariff number	85364900
Country of origin	Czech Republic

### Technical data

#### Dimensions

Width	5 mm
Height	28 mm
Depth	15 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

#### Coil side

Nominal input voltage $U_N$	4.5 V DC
Typical input current at $U_N$	38 mA
Typical response time	5 ms

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## Technical data

### Coil side

Typical release time	2.5 ms
Coil resistance	119 Ω ±10 % (at 20 °C)

### Contact side

Contact type	1 PDT
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC 36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Maximum inrush current	on request
Min. switching current	1 mA (at 24 V)
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC) 20 W (at 48 V DC) 18 W (at 60 V DC) 23 W (at 110 V DC) 40 W (at 220 V DC) 1500 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13) 0.2 A (at 110 V, DC13) 0.1 A (at 220 V, DC13) 3 A (at 24 V, AC15) 3 A (at 120 V, AC15) 3 A (at 230 V, AC15)

### General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	2 x 10 <sup>7</sup> cycles
Standards/regulations	IEC 60664 EN 50178 IEC 62103

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## Technical data

### General

Pollution degree	3
Surge voltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing

### Connection data

Connection method	Plug / solder connection
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## Classifications

### eCl@ss

eCl@ss 4.0	27371104
eCl@ss 4.1	27371104
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

### ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC000196

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

## Approvals

### Approvals

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UL Recognized / VDE Gutachten mit Fertigungsüberwachung / VDE Zeichengenehmigung / cUL Recognized / GOST / GL / cUL Recognized / UL Recognized / cULus Recognized

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## Approvals

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Ex Approvals

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Approvals submitted

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### Approval details

UL Recognized 

VDE Gutachten mit Fertigungsüberwachung 


VDE Zeichengenehmigung 

cUL Recognized 

GOST 

GL

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UL Recognized 

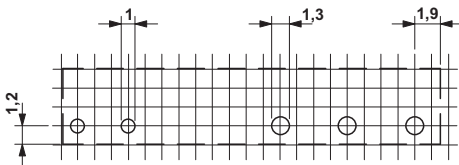
# Single relay - REL-MR 4,5DC/21AU - 2961370

## Approvals



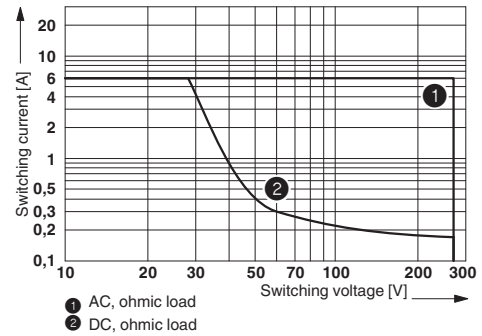
## Drawings

Drilling diagram



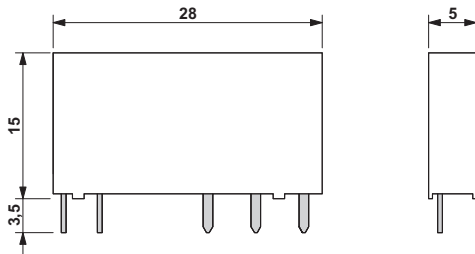
a = pitch division 1.25 mm and 1.27 mm

Diagram



Interrupting rating

Dimensioned drawing



Circuit diagram

