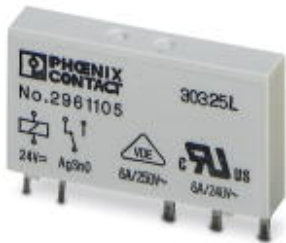


## Single relay - REL-MR- 12DC/21 - 2961150

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Plug-in miniature power relay, with power contact, 1 PDT, input voltage 12 V DC

The illustration shows the version REL-MR- 24DC/21

### Why buy this product

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



### Key Commercial Data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 017918 159566
Weight per Piece (excluding packing)	5.0 g
Custom tariff number	85364190
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 $U_N$	12 V DC
Input voltage range in reference to $U_N$	see diagram

# Single relay - REL-MR- 12DC/21 - 2961150

## Technical data

### Coil side

Typical input current at $U_N$	14 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	848 $\Omega$ $\pm$ 10 % (at 20 °C)
Power dissipation for nominal condition	0.17 W

### Contact side

Contact type	1 PDT
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	10 A (4 s)
Limiting continuous current	6 A
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
Degree of protection	RT III (wash-proof)
Mechanical service life	2 x 10 <sup>7</sup> cycles
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Degree of pollution	3
Overvoltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing

### Standards and Regulations

Connection in acc. with standard	CUL
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# Single relay - REL-MR- 12DC/21 - 2961150

## Technical data

### Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Degree of pollution	3
Overvoltage category	III

## 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	27371601
eCl@ss 9.0	27371601

### ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC001437

### 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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#### Approvals

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

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#### Ex Approvals


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# Single relay - REL-MR- 12DC/21 - 2961150


## Approvals


Approvals submitted

### Approval details

UL Recognized 

VDE Gutachten mit Fertigungsüberwachung 

VDE Zeichengenehmigung 

cUL Recognized 


GL

EAC

EAC

UL Recognized

cUL Recognized

cULus Recognized 

## Accessories

Additional products

# Single relay - REL-MR- 12DC/21 - 2961150

## Accessories

Relay socket - PLC-BPT- 12DC/21 - 2900444



6.2 mm PLC basic terminal block with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 12 V DC

Relay socket - PLC-BSP- 12DC/21 - 2967426



6.2 mm PLC basic terminal block with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 12 V DC

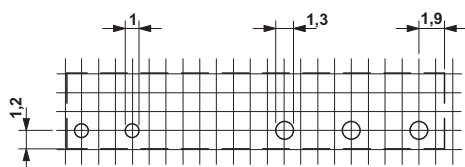
Relay socket - PLC-BSC- 12DC/21 - 2966896



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 12 V DC

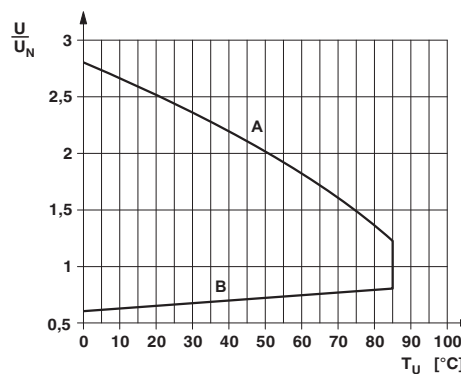
## Drawings

Drilling diagram



a = pitch division 1.25 mm and 1.27 mm

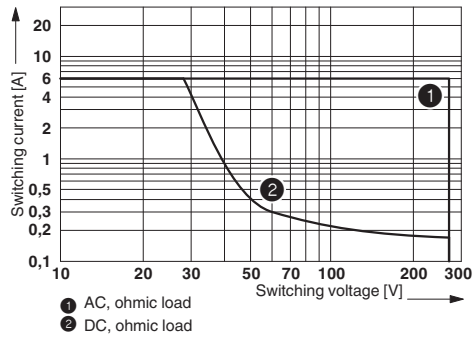
Diagram



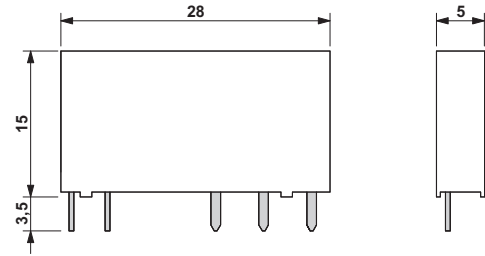
Input voltage range

# Single relay - REL-MR- 12DC/21 - 2961150

Diagram



Dimensional drawing



## Interrupting rating

Circuit diagram

