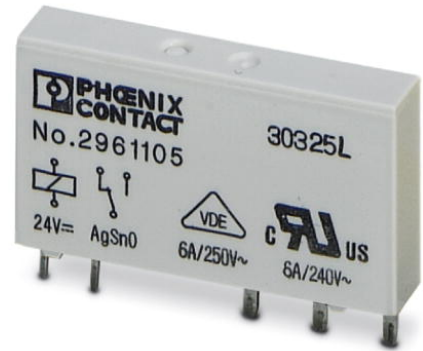



# REL-MR- 4,5DC/21

Order No.: 2961367



<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2961367>

Pluggable miniature relay, with power contact, 1 PDT, input voltage 4.5 V DC

Commercial data	
EAN	4  017918 730840
sales group	G084
Pack	10 Pcs.
Customs tariff	85364900
Gross weight in pieces	0.00658 KG
Net weight per piece	0.00637 KG
Catalog page information	Page 338 (C-7-2013)

### Product notes

WEEE/RoHS-compliant since: 02/09/2006



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data	
<b>Dimensions</b>	
Width	5 mm
Height	28 mm
Depth	15 mm
<b>Ambient conditions</b>	
Ambient temperature (operation)	-40 °C ... 85 °C

Ambient temperature (storage/transport)	-40 °C ... 85 °C
<b>Coil side</b>	
Nominal input voltage $U_N$	4.5 V DC
Input voltage range in reference to $U_N$	see diagram
Typical input current at $U_N$	38 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	119 $\Omega$ $\pm$ 10 % (at 20 °C)
<b>Contact side</b>	
Contact type	1 PDT
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Maximum inrush current	on request
Min. switching current	10 mA (at 12 V)
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)
<b>General</b>	
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
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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**Certificates / Approvals**



Certification

cULus Recognized, GOST, VDE Gutachten mit  
 Fertigungsüberwachung, VDE Zeichengenehmigung, GL

Certifications applied for:

Certification Ex:

**Additional products**

Item	Designation	Description
<b>General</b>		
2980241	PLC-BSC- 5DC/ 1/ACT	6.2 mm PLC actuator basic terminal block with load return line connection (BB), screw connection, 5 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.
2980267	PLC-BSC- 5DC/ 1/SEN	6.2 mm PLC sensor basic terminal block with sensor supply voltage distribution (BB), screw connection, 5 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.
2980225	PLC-BSC- 5DC/21	6.2 mm PLC basic terminal blocks with screw connection, 5 V DC input voltage (without relay or optocoupler)
2980254	PLC-BSP- 5DC/ 1/ACT	6.2 mm PLC actuator basic terminal block with load return line connection (BB), spring-cage connection, 5 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

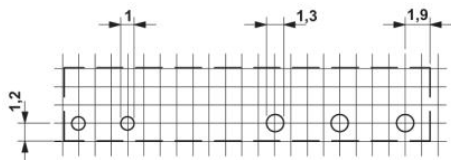
2980238	PLC-BSP- 5DC/21	6.2 mm PLC basic terminal blocks with spring-cage connection, 5 V DC input voltage (without relay or optocoupler)
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**Relay base**

2900448	PLC-BPT- 5DC/ 1/ACT	6.2 mm PLC actuator basic terminal block with load return line connection (BB), push-in connection, 5 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.
2900443	PLC-BPT- 5DC/21	6.2 mm PLC basic terminal blocks with push-in connection, 5 V DC input voltage (without relay or optocoupler)

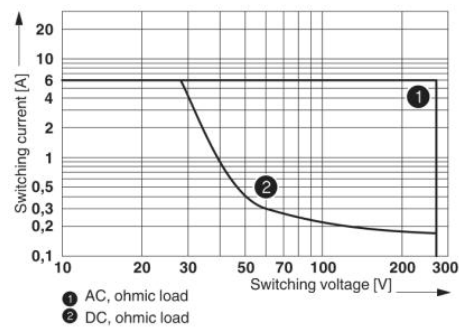
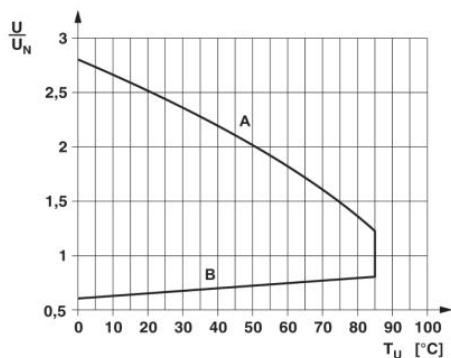
**Drawings**

Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

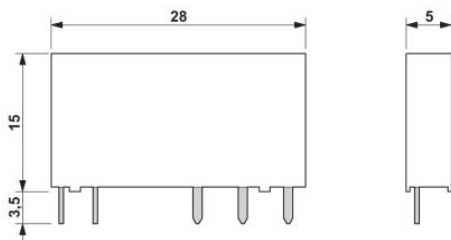
Diagram



Interrupting rating

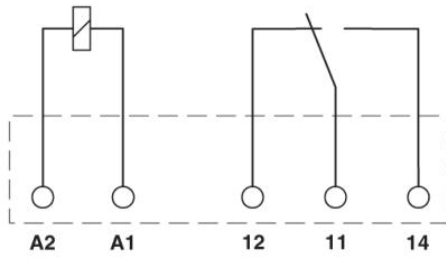
Operating voltage range

Dimensioned drawing



Circuit diagram

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