



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## UM 45-16RM/MR-G24/1/PLC

Order No.: 2962913

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2962913>VARIOFACE COMPACT LINE, output module with 16 miniature  
relays, 1 N/O contact each, plugged, for 24 V DC (incl. relay)

<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.

### Commercial data

EAN	4017918087517
Pack	1 pcs.
Customs tariff	85364190
Weight/Piece	0.2557 KG
Catalog page information	Page 247 (IF-2009)

### Technical data

#### Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	6.5 mA
Typical response time	5 ms
Typical release time	15 ms
Name of protection	Free-wheeling diode
Protective circuit/component	Damping diode
Operating voltage display	LED green
Status display/channel	Yellow LED

#### Output data

Contact type	1 N/O contact (double contact)
Contact material	AgNi, 5 µm hard gold-plated
Maximum switching voltage	250 V AC
	125 V DC
Minimum switching voltage	5 V
Limiting continuous current	3 A
Maximum inrush current	5 A
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	72 W (24 V DC)
	60 W (48 V DC)
	50 W (60 V DC)
	50 W (110 V DC)
	750 VA (250 V AC)

#### General data

No. of channels	32
Compatible components	Miniature relay, REL-MR-G 24/1
With components	Yes
Width	215 mm
Height	50 mm
Depth	45 mm
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Test voltage	2 kV (50 Hz, 1 min)
Service life mechanical	2 x 10 <sup>7</sup> cycles
Standards/regulations	IEC 60664
	DIN EN 50178
	IEC 62103
Operating mode	100% operating factor
Mounting position	Any
Assembly instructions	In rows with zero spacing
Pollution degree	2
Surge voltage category	III
Housing insulation material	PVC, side panel PA non-reinforced,
Color	green

**Connection data**

Connection 1	PCB connection
Type of connection	Screw connection
Number of positions	3
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	1.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	14
Screw thread	M3
Stripping length	8 mm
Connection 2	Flat-ribbon cable connection
Type of connection	Flat-ribbon cable plug connector in acc. with IEC 60603-13
Number of positions	50

**Certificates / Approvals**



Certification GOST

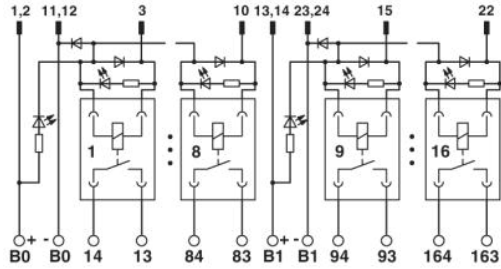
**Additional products**

Item	Designation	Description
<b>General</b>		
2962926	UM 45-16RM/MR-G24/1/E/PLC	VARIOFACE COMPACT LINE, output expansion module with 16 miniature relays, 1 N/O contact each, plugged, for 24 V DC (incl. relay)



## Diagrams/Drawings

### Circuit diagram



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