

RCIKIT 24VDC 2CO LD/FG
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image


Relay modules with forcibly guided contacts

Relays with forcibly guided contacts have a 99 % diagnostics coverage and an excellent reputation for use in safety systems. The contacts interlock mechanically with each other in order to ensure a synchronous switching status of both contacts. This guarantees that the alert contact will maintain the same switching status in the event of an error (for example, if the working contact welds from an overload). The controller (or safety controller) detects the alert contact and then compares the set values and actual values. If a difference occurs, measures can then be taken to protect equipment and human life.

- 2 CO contacts with 6 A, forcibly guided according to EN 61810-3 type B
- Proven component in safety technology
- Diagnosis coverage of 99 %

General ordering data

Version	RIDERSERIES FG, Relay module with positively driven contacts, Number of contacts: 2, CO contacts forcibly guided (EN 61810-3 type B) AgCuNi, Rated control voltage: 24 V DC $\pm 10\%$, Continuous current: 6 A, Screw connection, Test button available: No
Order No.	1218410000
Type	RCIKIT 24VDC 2CO LD/FG
GTIN (EAN)	4050118002416
Qty.	10 pc(s).
Relevant rim module	8713720000
Relevant base	8690830000
Relevant relay	1218380000

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Technical data

Dimensions and weights

Depth	61.6 mm	Depth (inches)	2.425 inch
Height	77.6 mm	Height (inches)	3.055 inch
Width	15.6 mm	Width (inches)	0.614 inch
Net weight	71.1 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...70 °C
Humidity	40 °C / 95 % rel. humidity, no condensation		

Control side

Rated control voltage	24 V DC \pm 10 %	Rated current DC	31.6 mA
Power rating	759 mW	Coil resistance	720 Ω \pm 10 %
Coil tolerance	10 %	Status indicator	Green LED
Protective circuit	Free-wheeling diode		

Load side

Rated switching voltage	250 V AC	Continuous current	6 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, DC	250 V
Inrush current	15 A / 20 ms	AC switching capacity (resistive), max.	1500 VA
DC switching capacity (resistive), max.	144 W @ 24 V	Switch-on delay	\leq 12 ms
Switch-off delay	\leq 6 ms	Contact type	2 CO contacts forcibly guided (EN 61810-3 type B) (AgCuNi)
Mechanical service life	$> 50 \times 10^6$ switching cycles	Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V

General data

Rail	TS 35	Test button available	No
Mechanical switch position indicator	No	Colour	black
UL 94 flammability rating	V-1		

Insulation coordination

Rated voltage	250	Pollution severity	2
Surge voltage category	III	Clearance and creepage distances for control side - load side	\geq 10 mm
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 Min.	Dielectric strength of neighbouring con- tacts	2.5 kV _{eff} / 1 Min.
Dielectric strength of open contact	1.5 kV _{eff} / 1 min.	Impulse withstand voltage	6 kV (1.2/50 μ s)
Protection degree	IP20		

Further details of approvals / standards

Standards	DIN EN 50205	Certificate no. (cURus) base	E223759
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Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Clamping range, rated connection	2.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²	Blade size	size PH1

Creation date July 25, 2024 4:36:16 AM CEST

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Classifications

ETIM 6.0	EC001437	ETIM 7.0	EC001437
ETIM 8.0	EC001437	ETIM 9.0	EC001437
ECLASS 9.0	27-37-16-01	ECLASS 9.1	27-37-16-01
ECLASS 10.0	27-37-16-01	ECLASS 11.0	27-37-16-01
ECLASS 12.0	27-37-16-01	ECLASS 13.0	27-37-16-01

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	fc45714a-dcf9-499e-b37b-5a6f61f2521f
RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl

Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	SISTEMA, Zuken E3.S
Software	Library and function block – SISTEMA library 2.0
Catalogues	Catalogues in PDF-format
Brochures	

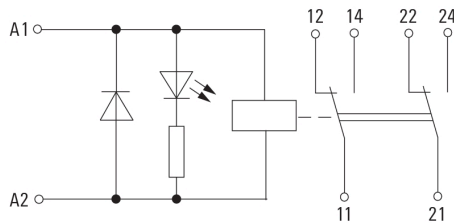
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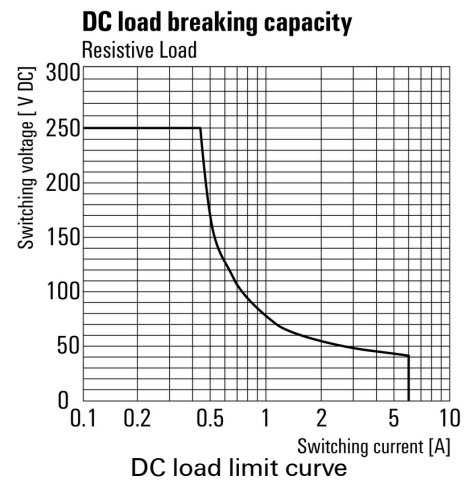
Drawings

Wiring diagram

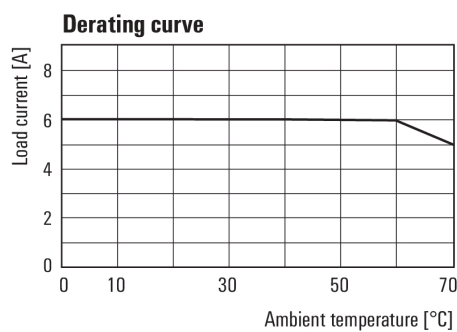


Connection diagram

Graph

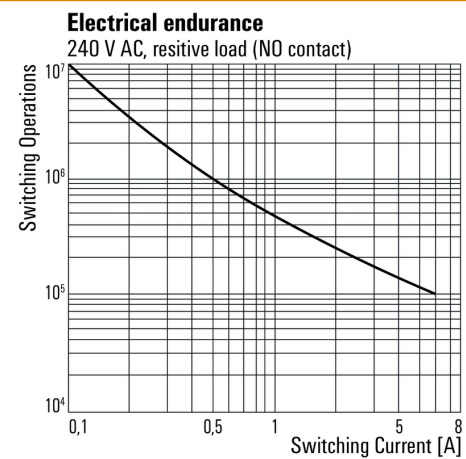


Graph

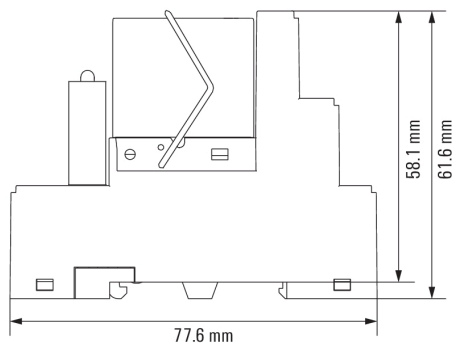


DC load limit curve

Graph



Dimensional drawing



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Accessories**ESG 6/15****Guaranteed long service life: ESG**

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

General ordering data

Type	ESG 6/15 MM WS	Version
Order No.	2619940000	ESG, Device markers, 6 x 15 mm, white
GTIN (EAN)	4050118626148	
Qty.	3,000 pc(s).	

ESG 6/17**Guaranteed long service life: ESG**

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Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

General ordering data

Type	ESG 6/17 MM WS	Version
Order No.	2005100000	ESG, Device markers, 6 x 17 mm, white
GTIN (EAN)	4050118390728	
Qty.	3,000 pc(s).	

RCIKIT 24VDC 2CO LD/FG**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com**Accessories****Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

General ordering data

Type	SDIK PH1 X 80	Version
Order No.	2749890000	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	

Crosshead screwdriver Phillips

Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

General ordering data

Type	SDK PH1 X 80	Version
Order No.	2749410000	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A):
GTIN (EAN)	4050118895636	
Qty.	1 pc(s).	

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Accessories

Individual components



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General ordering data

Type	SRC MARK	Version
Order No.	8693270000	RIDERSERIES FG, Label
GTIN (EAN)	4032248364725	
Qty.	10 pc(s).	
Type	RIM 2 6/24VDC GN	Version
Order No.	8713720000	RIDERSERIES FG, LED module with freewheel diode, Rated control
GTIN (EAN)	4032248389872	voltage: 6...24 V DC, Plug-in connection
Qty.	10 pc(s).	

Crosshead screwdriver, Phillips



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

Type	SDIK SLIM PH1 X 80	Version
Order No.	2749650000	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118896398	
Qty.	1 pc(s).	

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www.weidmueller.com**Accessories****Retaining clips**

Retaining clip for RIDERSERIES RCI relays

- Metal and plastic retaining clip

General ordering data

Type	SRC-I CLIP HM RCI	Version
Order No.	1132090000	RIDERSERIES RCI, Retaining clip
GTIN (EAN)	4032248912209	
Qty.	20 pc(s).	

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