

RIDERSERIES FG RCIKIT 24VDC 2CO LD/FG

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
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www.weidmueller.com



- Coupling relay with positively driven contacts: for monitoring signals within safety-critical circuits
- Relays with positively driven contacts have a 99% diagnostics coverage and an excellent reputation for use in safety systems.
- The contacts interlock with each other in order to ensure a synchronous switching status between 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 melts from an overload).

General ordering data

Type	RCIKIT 24VDC 2CO LD/FG
Order No.	1218410000
Version	RIDERSERIES FG, Relay module with positively driven contacts, No. of contacts: 2 Contact positively-driven (EN 50205 type B) AgCuNi, Rated control voltage: 24 V DC, Continuous current: 6 A, Screw connection
GTIN (EAN)	4050118002416
Qty.	10 pc(s).

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Technical data
Dimensions and weights

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

Temperatures

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

Input

Rated control voltage	24 V DC	Rated current DC	31.6 mA
Power rating	700 mW	Pull-in/drop-out voltage, typ.	18 V / 2.4 V DC
Coil resistance	720 Ω ± 10 %	Status indicator	Green LED
Protective circuit	Free-wheel diode		

Output

Rated switching voltage	250 V AC	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	Continuous current	6 A
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	≤ 12 ms
Switch-off delay	≤ 6 ms	Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
Max. switching frequency at rated load	0.1 Hz		

Contact data

Contact type	2 Contact positively-driven (EN 50205 type B) (AgCuNi)	Mechanical service life	> 50 x 10 ⁶ switching cycles
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General data

Mounting rail	TS 35	Test button	No
Mechanical switch position indicator	No	UL 94 flammability rating	V-1

Insulation coordination

Rated voltage	250 V	Surge voltage category	III
Pollution severity	2	Protection degree	IP20
Dielectric strength input – output	2.5 kV _{eff} / 1 min.	Creepage and clearance distance input – output	≥ 10 mm
Dielectric strength of neighbouring contacts	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 μs)		

Further details of approvals / standards

Standards	DIN EN 50205	Certificate no. (cURus) base	E223759
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Data sheet

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Technical data

Connection data

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

Classifications

ETIM 3.0	EC001437	ETIM 5.0	EC001437
ETIM 6.0	EC001437	UNSPSC	30-21-18-01
eClass 5.1	27-37-16-01	eClass 6.2	27-37-16-01
eClass 7.1	27-37-16-01	eClass 8.1	27-37-16-01
eClass 9.0	27-37-16-01	eClass 9.1	27-37-16-01

Approvals

Approvals



ROHS Conform

Downloads

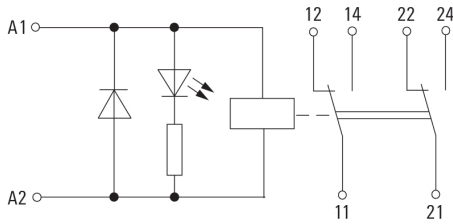
Approval/Certificate/Document of Conformity	DE_PA5600_160330_001.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 15/16 EN
Engineering Data	EPLAN, SISTEMA, WSCAD, Zuken E3.S

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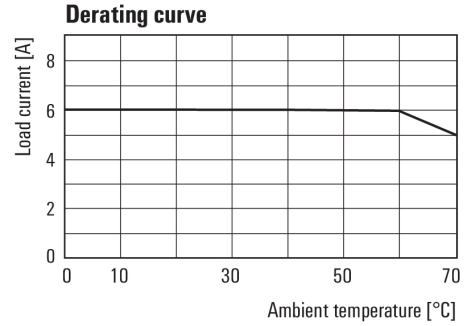
Drawings

Wiring diagram



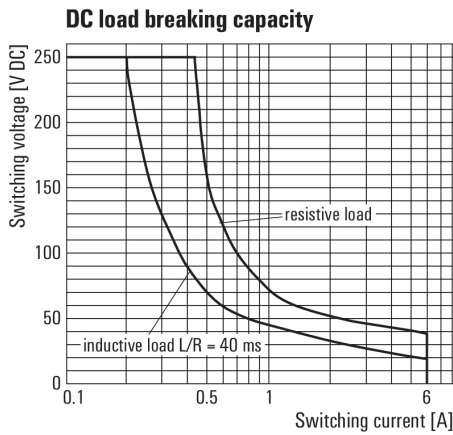
Connection diagram

Graph



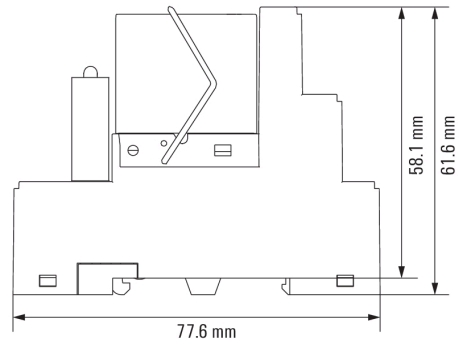
DC load limit curve

Graph



DC load limit curve

Dimensional drawing



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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	Order No.	Version	GTIN (EAN)	Qty.
SDIK PH1	9008570000	Screwdriver, Blade length: 80 mm	4032248056569	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	Order No.	Version	GTIN (EAN)	Qty.
SDK PH1	9008480000	Screwdriver, Blade width (B): 4.5 mm, Blade length: 80 mm	4032248056477	1 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	Order No.	Version	GTIN (EAN)	Qty.
SDIK PH1 SL	1274710000	Assembly tool, Blade length: 80 mm	4050118073249	1 pc(s).

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Accessories

Labelling clip



- Labelling clip for marking RIDERSERIES FG relay sockets
- Attachable individual markers (no MultiCard)
 - Attachable on the input levels of the relay socket
 - PrintJet printing is not possible
 - Labelling clip can be optionally pasted up with ESG ... K MultiCard

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SRC MARK	8693270000	RIDERSERIES FG, Label	4032248364725	10 pc(s).

LED / free-wheel diode



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General ordering data

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

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Accessories

Retaining clip



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General ordering data

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