

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

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

Product image


- 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, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...85 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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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 $\Omega \pm 10\%$	Status indicator	Green LED
Protective circuit	Free-wheeling 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	$> 50 \times 10^6$ switching cycles
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General data

Rail	TS 35	Test button	No
Mechanical switch position indicator	No	Colour code	black
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 μ s)		

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Technical data
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

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
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Downloads

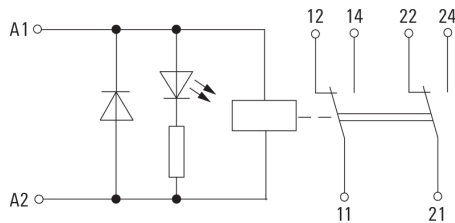
Approval/Certificate/Document of Conformity	DE_PA5600_160330_001.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, SISTEMA, WSCAD, Zuken E3.S
Engineering Data	STEP

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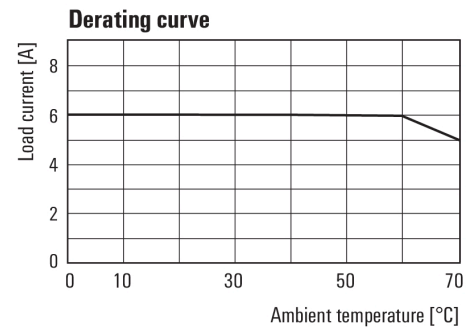
Drawings

Wiring diagram



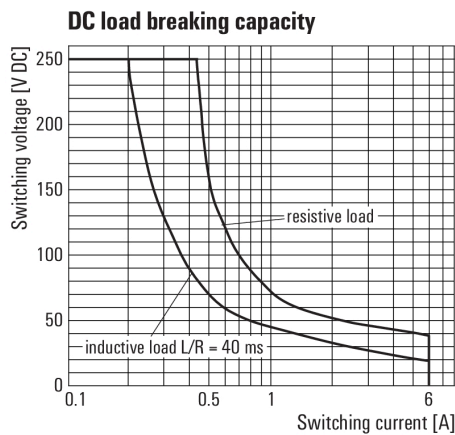
Connection diagram

Graph



DC load limit curve

Graph



DC load limit curve

Dimensional drawing

