

RCI424BB0

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Product image



Similar to illustration

Individual relays within the RIDERSERIES RCI

- 2 CO contacts
- DC coils
- With integrated status LED and free-wheeling diode

General ordering data

Version	RIDERSERIES RCI, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 110 V DC, Continuous current: 8 A, Plug-in connection, Test button available: No
Order No.	8870200000
Type	RCI424BB0
GTIN (EAN)	4032248613564
Qty.	10 items
Delivery status	Discontinued
Available until	2024-10-31T00:00:00+01:00
Alternative product	CRI20110

Creation date 28.02.2026 01:14:15 MEZ

Catalogue status / Drawings

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	25.6 mm	Depth (inches)	1.0079 inch
Height	29 mm	Height (inches)	1.1417 inch
Width	13 mm	Width (inches)	0.5118 inch
Net weight	16 g		

Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	-40 °C...70 °C
Operating temperature		Humidity	40 °C / 93 % rel. humidity, no condensation

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a
REACH SVHC	Lead 7439-92-1
SCIP	85ecb834-8971-4667-a012-c65a77e9d726

Control side

Rated control voltage	110 V DC	Rated current DC	4.6 mA
Power rating	507 mW	Coil resistance	28800 Ω ± 12 %
Status indicator	Green LED	Protective circuit	Free-wheeling diode

Load side

Rated switching voltage	240 V AC	Continuous current	8 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	250 V
Inrush current	15 A / 4 s	AC switching capacity (resistive), max.	2000 VA
DC switching capacity (resistive), max.	192 W @ 24 V	Switch-on delay	≤ 10 ms
Switch-off delay	≤ 6 ms	Contact type	2 CO contact (AgNi)
Mechanical service life	AC coil 5 x 10 ⁶ switching cycles, DC coil 10 x 10 ⁶ switching cycles	Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V

General data

Test button available	No	Mechanical switch position indicator	No
Colour	Transparent	UL 94 flammability rating	V-2

Insulation coordination

Rated voltage	250 V	Pollution severity	2
Surge voltage category	III	Insulating material group	IIIa

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Clearance and creepage distances for control side - load side	≥ 8 mm	Dielectric strength for control side - load side	5 kVeff / 1min
Dielectric strength of neighbouring contacts	2.5 kVeff / 1 Min.	Dielectric strength of open contact	1 kVeff / 1 min
Impulse withstand voltage	5 kV (1.2/50 µs)		

Further details of approvals / standards

Certificate No. (CSA) 249409-2426937

Connection data

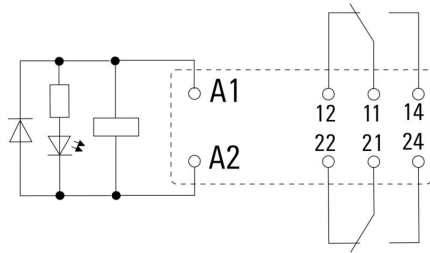
Wire connection method Plug-in connection Pitch in mm (P) 5.00 mm

Classifications

ETIM 8.0	EC001437	ETIM 9.0	EC001437
ETIM 10.0	EC001437	ECLASS 14.0	27-37-16-01
ECLASS 15.0	27-37-16-01		

Drawings

Wiring diagram



View of Pins from below

Graph



DC load limit curve Resistive load

Graph



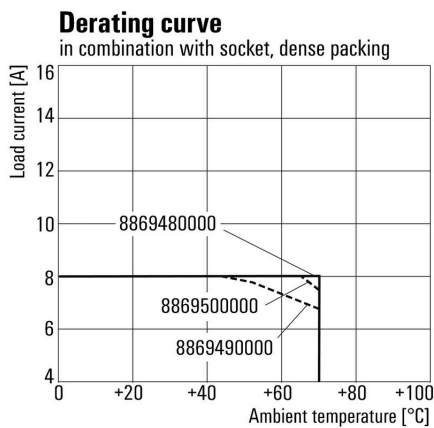
DC operational voltage range

Graph



Electrical service life 250 V AC resistive load

Graph



Derating curve Relay in combination with base

Dimensional drawing



Miscellaneous

	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">RCI</td> <td style="width: 20px; height: 15px;"></td> <td style="width: 20px; height: 15px;"></td> <td style="width: 20px; height: 15px;"></td> <td style="width: 20px; height: 15px;"></td> </tr> </table>	RCI					
RCI							
<p>Type RIDER Control Industrial</p> <p>Type of construction 3 16 A pinning 5 mm 4 8 A, pinning 5mm</p> <p>Type of contact 1 1 CO without push button 2 2 CO without push button 7 1 CO with push button 8 2 CO with push button</p> <p>Contact material 4 AgNi 90/10</p>		<p>Coil voltage</p> <p>012 12 V DC 024 24 V DC 048 48 V DC 110 110 V DC AB2 12 V DC + LED + diode AC4 24 V DC + LED + diode AE8 48 V DC + LED + diode BB0 110 V DC + LED + diode</p> <p>524 24 V AC 615 115 V AC 730 230 V AC R24 24 V AC + LED S15 115 V AC + LED T30 230 V AC + LED</p>					

Type codes

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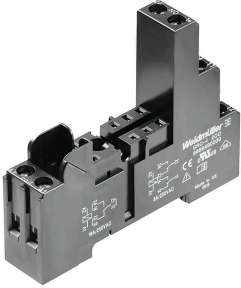
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Germany

Accessories

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Sockets



Relay sockets for the RIDERSERIES RCI relays

- 1 and 2 CO contacts
- Screw and PUSH IN connection
- Standard and low heights

General ordering data

Type	SRC-I 2CO	Version	
Order No.	8869490000	RIDERSERIES RCI, Relay socket, Number of contacts: 2, CO contact,	
GTIN (EAN)	4032248614448	Continuous current: 8 A, Screw connection	
Qty.	10 ST		
Type	SRC-I 2CO N	Version	
Order No.	8869480000	RIDERSERIES RCI, Relay socket, Number of contacts: 2, CO contact,	
GTIN (EAN)	4032248614431	Continuous current: 8 A, Screw connection	
Qty.	10 ST		
Type	SRC-I 2CO P	Version	
Order No.	8869500000	RIDERSERIES RCI, Relay socket, Number of contacts: 2, CO contact,	
GTIN (EAN)	4032248614455	Continuous current: 8 A, PUSH IN	
Qty.	10 ST		

Cross-connection for socket with PUSH IN connection

Cross-connection for the sockets in the RIDERSERIES RCI.



General ordering data

Type	SRC-I QV P	Version	
Order No.	8870840000	RIDERSERIES RCI, Cross-connector	
GTIN (EAN)	4032248631681		
Qty.	10 ST		

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Accessories

Cross-connection for socket with screw connection

Cross-connection for the sockets in the D-SERIES DRI.



General ordering data

Type	SRC-I QV S	Version	
Order No.	1132070000	RIDERSERIES RCI, Cross-connector	
GTIN (EAN)	4032248912087		
Qty.	10 ST		

Retaining clips

Retaining clip for RIDERSERIES RCI relays
• Metal and plastic retaining clip



General ordering data

Type	SRC-I CLIP HP	Version	
Order No.	8869510000	RIDERSERIES RCI, Retaining clip	
GTIN (EAN)	4032248614462		
Qty.	10 ST		

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Accessories

Individual components



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

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

Protection module



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- Optional with free-wheeling diode, protective varistor, load resistor or RC filter

General ordering data

Type	RIM-I 1 6/230V	Version	
Order No.	8869580000	RIDERSERIES, Free-wheeling diode, Rated control voltage: 6...230 V	
GTIN (EAN)	4032248614523	DC, Plug-in connection	
Qty.	10 ST		
Type	RIM-I 1 R 110/230V	Version	
Order No.	8870830000	RIDERSERIES, Load, Rated control voltage: 110...230 V UC, Plug-in connection	
GTIN (EAN)	4032248631674		
Qty.	10 ST		

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Accessories

LED / Free-wheel diode



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- Optional with green or red LED
- With free-wheeling diode
- For DC supply voltage

General ordering data

Type	RIM-I 2 110/230VDC	Version
Order No.	8869690000	RIDERSERIES, LED module with freewheel diode, Rated control voltage: 110...230 V DC, Plug-in connection
GTIN (EAN)	4032248614622	
Qty.	10 ST	

Type	RIM-I 2 110/230VDC GN	Version
Order No.	8869700000	RIDERSERIES, LED module with freewheel diode, Rated control voltage: 110...230 V DC, Plug-in connection
GTIN (EAN)	4032248614639	
Qty.	10 ST	

LED



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- Optional with green or red LED
- For UC supply voltage

General ordering data

Type	RIM-I 3 110/230VUC	Version
Order No.	8869650000	RIDERSERIES, LED module, Rated control voltage: 110...230 V UC, Plug-in connection
GTIN (EAN)	4032248614592	
Qty.	10 ST	

Type	RIM-I 3 110/230VUC GN	Version
Order No.	8869660000	RIDERSERIES, LED module, Rated control voltage: 110...230 V UC, Plug-in connection
GTIN (EAN)	4032248614721	
Qty.	10 ST	

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Accessories

Protective varistor



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- With protective varistor
- For UC supply voltage

General ordering data

Type	RIM-I 4 110VUC VAR	Version	
Order No.	8869730000	RIDERSERIES, Protective varistor, Rated control voltage: 110 V UC,	
GTIN (EAN)	4032248606351	Plug-in connection	
Qty.	10 ST		

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.	3000 ST		

ESG 6/17



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 6/17 MM WS	Version	
Order No.	2005100000	ESG, Device markers, 6 x 17 mm, white	
GTIN (EAN)	4050118390728		
Qty.	3000 ST		

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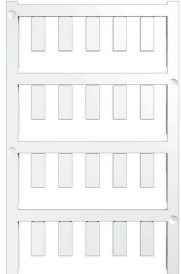
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Accessories

Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	ESG 6/15 SRC-I MC NE WS	Version	
Order No.	2558350000	ESG, Device markers x 15 mm, PA 66, Colour: white, pluggable	
GTIN (EAN)	4050118569063		
Qty.	200 ST		

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Counterpart

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