

**RCM570024****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Individual relays within the RIDERSERIES RCM

- 4 CO contacts
- Optional AC or DC coils
- With test button

**General ordering data**

|                     |                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version             | RIDERSERIES RCM, Relay, Number of contacts: 4, CO contact AgNi, Rated control voltage: 24 V DC, Continuous current: 6 A, Plug-in connection, Test button available: Yes |
| Order No.           | <a href="#">8690200000</a>                                                                                                                                              |
| Type                | RCM570024                                                                                                                                                               |
| GTIN (EAN)          | 4032248360833                                                                                                                                                           |
| Qty.                | 10 items                                                                                                                                                                |
| Delivery status     | This article will no longer be available in the future.                                                                                                                 |
| Available until     | 2026-06-30T00:00:00+02:00                                                                                                                                               |
| Alternative product | <a href="#">CRM40024T</a>                                                                                                                                               |

RCM570024

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## Technical data

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate No. (cURus) | E522350                    |

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 29 mm   | Depth (inches)  | 1.1417 inch |
| Height     | 28 mm   | Height (inches) | 1.1024 inch |
| Width      | 22.5 mm | Width (inches)  | 0.8858 inch |
| Net weight | 26.31 g |                 |             |

## Temperatures

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

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E522350 |
|-------------------------|---------|

## Control side

|                       |         |                  |              |
|-----------------------|---------|------------------|--------------|
| Rated control voltage | 24 V DC | Rated current DC | 30.9 mA      |
| Power rating          | 741 mW  | Coil resistance  | 777 Ω ± 10 % |
| Status indicator      | No      |                  |              |

## Load side

|                                         |                                                                            |                                         |                                            |
|-----------------------------------------|----------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------|
| Rated switching voltage                 | 240 V AC                                                                   | Continuous current                      | 6 A                                        |
| Max. switching frequency at rated load  | 0.1 Hz                                                                     | Max. switching voltage, AC              | 250 V                                      |
| Inrush current                          | 12 A / 20 ms                                                               | AC switching capacity (resistive), max. | 1500 VA                                    |
| DC switching capacity (resistive), max. | 144 W @ 24 V                                                               | Switch-on delay                         | ≤ 15 ms                                    |
| Switch-off delay                        | ≤ 10 ms                                                                    | Contact type                            | 4 CO contact (AgNi)                        |
| Mechanical service life                 | AC coil 20 x 106<br>switching cycles, DC coil<br>30 x 106 switching cycles | Min. switching power                    | 1 mA @ 24 V, 10 mA @ 12<br>V, 100 mA @ 5 V |

## General data

|                                      |     |                        |                                                |
|--------------------------------------|-----|------------------------|------------------------------------------------|
| Test button available                | Yes | Version of test button | Lockable test button,<br>Momentary test button |
| Mechanical switch position indicator | Yes | Colour                 | Transparent                                    |
| UL 94 flammability rating            | V-2 |                        |                                                |

## Technical data

## Insulation coordination

|                                                               |                  |                                                  |                    |
|---------------------------------------------------------------|------------------|--------------------------------------------------|--------------------|
| Rated voltage                                                 | 250 V            | Pollution severity                               | 2                  |
| Surge voltage category                                        | III              | Insulating material group                        | IIIa               |
| Clearance and creepage distances for control side - load side | ≥ 4 mm           | Dielectric strength for control side - load side | 2.5 kVeff / 1 Min. |
| Dielectric strength of neighbouring contacts                  | 2 kVeff / 1 min  | Dielectric strength of open contact              | 1.2 kVeff / 1 min. |
| Impulse withstand voltage                                     | 5 kV (1.2/50 µs) | Protection degree                                | IP20               |

## Further details of approvals / standards

|                         |                |                       |          |
|-------------------------|----------------|-----------------------|----------|
| Certificate No. (CSA)   | 249409-2426937 | Certificate No. (VDE) | 40011762 |
| Certificate No. (cURus) | E522350        |                       |          |

## Connection data

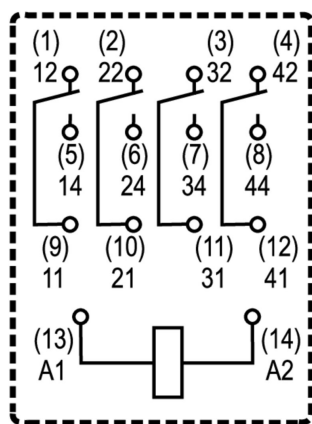
|                        |                    |
|------------------------|--------------------|
| Wire connection method | Plug-in connection |
|------------------------|--------------------|

## 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 |             |             |

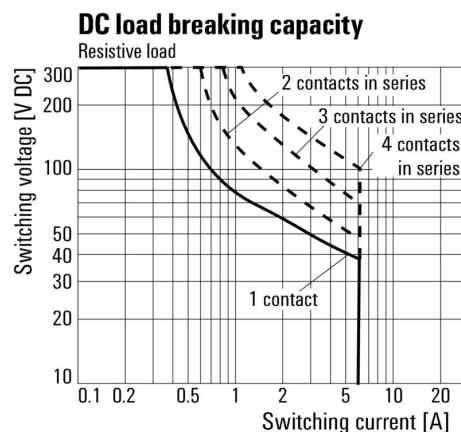
## Drawings

## Wiring diagram



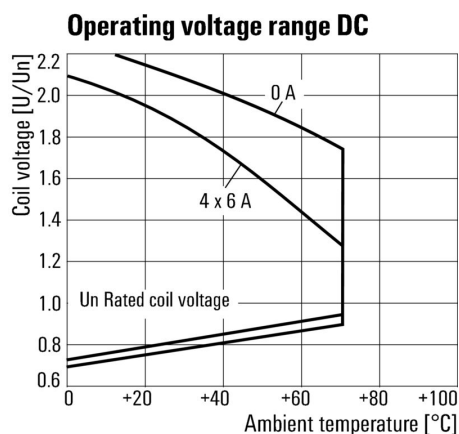
View of Pins from below

## Graph



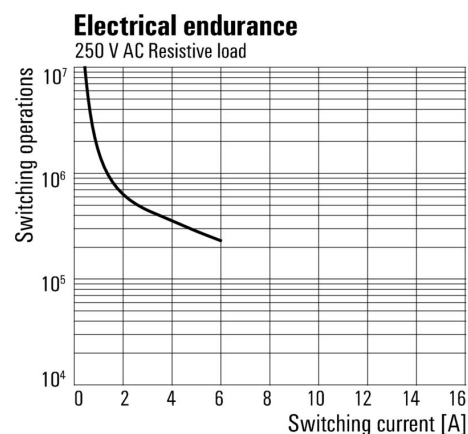
DC load limit curve Resistive load

## Graph



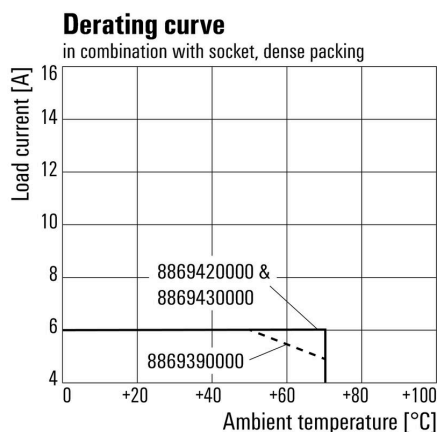
DC operational voltage range

## Graph



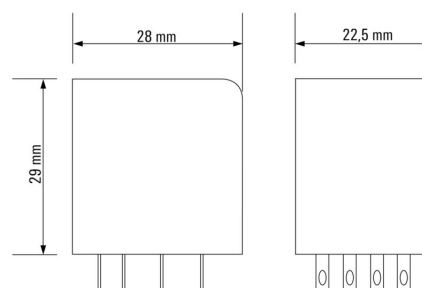
Electrical service life 250 V AC resistive load

## Graph



Derating curve Relay in combination with base

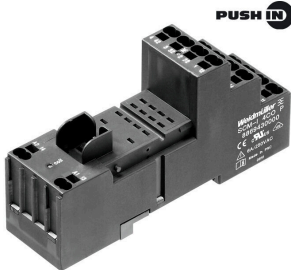
## Dimensional drawing





## Accessories

## Sockets



relays sockets for RIDERSERIES RCM relays

- 2, 3 and 4 CO contacts
- Screw and PUSH IN connection
- Standard and low heights

## General ordering data

|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| Type       | SCM-I 4CO                  | Version                                                           |
| Order No.  | <a href="#">8869420000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614271              | Continuous current: 6 A, Screw connection                         |
| Qty.       | 10 ST                      |                                                                   |
| Type       | SCM-I 4CO N                | Version                                                           |
| Order No.  | <a href="#">8869390000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614257              | Continuous current: 6 A, Screw connection                         |
| Qty.       | 10 ST                      |                                                                   |
| Type       | SCM-I 4CO P                | Version                                                           |
| Order No.  | <a href="#">8869430000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614288              | Continuous current: 6 A, PUSH IN                                  |
| Qty.       | 10 ST                      |                                                                   |

## Cross-connection for socket with PUSH IN connection

Cross-connection for the sockets in the RIDERSERIES RCM



## General ordering data

|            |                            |                                  |
|------------|----------------------------|----------------------------------|
| Type       | SCM-I QV P                 | Version                          |
| Order No.  | <a href="#">8870850000</a> | RIDERSERIES RCM, Cross-connector |
| GTIN (EAN) | 4032248631698              |                                  |
| Qty.       | 10 ST                      |                                  |

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## Accessories

## Cross-connection for socket with screw connection

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



## General ordering data

|            |                            |                                  |
|------------|----------------------------|----------------------------------|
| Type       | SCM-I QV S                 | Version                          |
| Order No.  | <a href="#">1132080000</a> | RIDERSERIES RCM, Cross-connector |
| GTIN (EAN) | 4032248912193              |                                  |
| Qty.       | 10 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.  | <a href="#">8869580000</a> | RIDERSERIES, Free-wheeling diode, Rated control voltage: 6...230 V |
| GTIN (EAN) | 4032248614523              | DC, Plug-in connection                                             |
| Qty.       | 10 ST                      |                                                                    |

## 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 24/60VDC           | Version                                                                                               |
| Order No.  | <a href="#">8869670000</a> | RIDERSERIES, LED module with freewheel diode, Rated control voltage: 24...60 V DC, Plug-in connection |
| GTIN (EAN) | 4032248614608              |                                                                                                       |
| Qty.       | 10 ST                      |                                                                                                       |

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## Accessories

|            |                            |                                                             |
|------------|----------------------------|-------------------------------------------------------------|
| Type       | RIM-I 2 24/60VDC GN        | Version                                                     |
| Order No.  | <a href="#">8869680000</a> | RIDERSERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 4032248614615              | voltage: 24...60 V DC, Plug-in connection                   |
| Qty.       | 10 ST                      |                                                             |
| Type       | RIM-I 2 6/24VDC            | Version                                                     |
| Order No.  | <a href="#">8869590000</a> | RIDERSERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 4032248614530              | voltage: 6...24 V DC, Plug-in connection                    |
| Qty.       | 10 ST                      |                                                             |
| Type       | RIM-I 2 6/24VDC GN         | Version                                                     |
| Order No.  | <a href="#">8869600000</a> | RIDERSERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 4032248614547              | voltage: 6...24 V DC, Plug-in connection                    |
| 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 24/60VUC           | Version                                                              |
| Order No.  | <a href="#">8869610000</a> | RIDERSERIES, LED module, Rated control voltage: 24...60 V UC, Plug-  |
| GTIN (EAN) | 4032248614554              | in connection                                                        |
| Qty.       | 10 ST                      |                                                                      |
| Type       | RIM-I 3 24/60VUC GN        | Version                                                              |
| Order No.  | <a href="#">8869620000</a> | RIDERSERIES, LED module, Rated control voltage: 24...60 V UC, Plug-  |
| GTIN (EAN) | 4032248614561              | in connection                                                        |
| Qty.       | 10 ST                      |                                                                      |
| Type       | RIM-I 3 6/24VUC            | Version                                                              |
| Order No.  | <a href="#">8869630000</a> | RIDERSERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in |
| GTIN (EAN) | 4032248614578              | connection                                                           |
| Qty.       | 10 ST                      |                                                                      |
| Type       | RIM-I 3 6/24VUC GN         | Version                                                              |
| Order No.  | <a href="#">8869640000</a> | RIDERSERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in |
| GTIN (EAN) | 4032248614585              | connection                                                           |
| 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 24VUC VAR          | Version                                                           |
| Order No.  | <a href="#">8869710000</a> | RIDERSERIES, Protective varistor, Rated control voltage: 24 V UC, |
| GTIN (EAN) | 4032248606344              | Plug-in connection                                                |
| Qty.       | 10 ST                      |                                                                   |

## Retaining clips



Retaining clip for RIDERSERIES RCM relays

- Metal and plastic retaining clip

## General ordering data

|            |                            |                                 |
|------------|----------------------------|---------------------------------|
| Type       | SCM-I CLIP M               | Version                         |
| Order No.  | <a href="#">8869450000</a> | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248614301              |                                 |
| Qty.       | 10 ST                      |                                 |
| Type       | SCM-I CLIP P               | Version                         |
| Order No.  | <a href="#">8869440000</a> | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248614295              |                                 |
| Qty.       | 10 ST                      |                                 |
| Type       | SCM-I CLIP N               | Version                         |
| Order No.  | <a href="#">8875620000</a> | RIDERSERIES RCM, Retaining clip |
| GTIN (EAN) | 4032248608577              |                                 |
| Qty.       | 10 ST                      |                                 |

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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.  | <a href="#">2619940000</a> | 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.

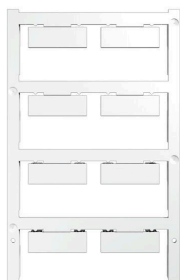
Your benefits with MultiMark

- "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.  | <a href="#">2005100000</a> | ESG, Device markers, 6 x 17 mm, white |
| GTIN (EAN) | 4050118390728              |                                       |
| Qty.       | 3000 ST                    |                                       |

## 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.

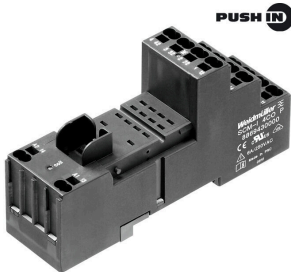
## Accessories

### General ordering data

|            |                            |                                                              |  |
|------------|----------------------------|--------------------------------------------------------------|--|
| Type       | ESG 9/26 SCM-I MC NE WS    | Version                                                      |  |
| Order No.  | <a href="#">2558330000</a> | ESG, Device markers x 26 mm, PA 66, Colour: white, pluggable |  |
| GTIN (EAN) | 4050118569049              |                                                              |  |
| Qty.       | 80 ST                      |                                                              |  |

## Counterpart

## Sockets



relays sockets for RIDERSERIES RCM relays

- 2, 3 and 4 CO contacts
- Screw and PUSH IN connection
- Standard and low heights

## General ordering data

|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| Type       | SCM-I 4CO                  | Version                                                           |
| Order No.  | <a href="#">8869420000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614271              | Continuous current: 6 A, Screw connection                         |
| Qty.       | 10 ST                      |                                                                   |
| Type       | SCM-I 4CO N                | Version                                                           |
| Order No.  | <a href="#">8869390000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614257              | Continuous current: 6 A, Screw connection                         |
| Qty.       | 10 ST                      |                                                                   |
| Type       | SCM-I 4CO P                | Version                                                           |
| Order No.  | <a href="#">8869430000</a> | RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248614288              | Continuous current: 6 A, PUSH IN                                  |
| Qty.       | 10 ST                      |                                                                   |