

DRM570024

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

www.weidmueller.com

Product image



Similar to illustration

Individual relays within the D-SERIES DRM

- 4 CO contacts
- Optional AC or DC coils

General ordering data

| | |
|------------|---|
| Version | D-SERIES DRM, Relay, Number of contacts: 4, CO contact, AgNi flash gold-plated, Rated control voltage: 24 V DC, Continuous current: 5 A, Plug-in connection |
| Order No. | 7760056079 |
| Type | DRM570024 |
| GTIN (EAN) | 4032248855124 |
| Qty. | 20 items |

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Technical data

Approvals

Approvals



| | |
|-------------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E312083 |

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 35.7 mm | Depth (inches) | 1.4055 inch |
| Height | 27.4 mm | Height (inches) | 1.0787 inch |
| Width | 21 mm | Width (inches) | 0.8268 inch |
| Net weight | 34.7 g | | |

Temperatures

| | | | |
|-----------------------|----------------|---------------------|--|
| Storage temperature | -40 °C...70 °C | Ambient temperature | -40 °C...60 °C |
| Operating temperature | | Humidity | 35...85 % rel. humidity, 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) | E312083 |
|-------------------------|---------|

Control side

| | | | |
|-----------------------|---------|------------------|--------------|
| Rated control voltage | 24 V DC | Rated current DC | 37.8 mA |
| Power rating | 0.9 W | Coil resistance | 630 Ω ± 10 % |
| Status indicator | No | | |

Load side

| | | | |
|---|---------------------------------------|---|---------------------------------------|
| Rated switching voltage | 250 V AC | Continuous current | 5 A |
| Max. switching frequency at rated load | 0.1 Hz | Inrush current | 10 A / 50 ms |
| AC switching capacity (resistive), max. | 1250 VA | DC switching capacity (resistive), max. | 120 W @ 24 V |
| Switch-on delay | <20 ms | Switch-off delay | <20 ms |
| Contact type | 4 CO contact (AgNi flash gold-plated) | Mechanical service life | 20 x 10 ⁶ switching cycles |
| Min. switching power | 10 mA @ 12 V, 100 mA @ 5 V | | |

General data

| | | |
|--------------------------------------|--------------------------|-----------------|
| Test button available | No | |
| Mechanical switch position indicator | Yes | |
| Colour | Transparent | |
| UL94 flammability rating component | Component | Relay cover |
| | UL94 flammability rating | V-2 |
| | Component | Relay baseplate |

Technical data

| | |
|--------------------------|------------------------|
| UL94 flammability rating | V-0 |
| Component | Relay status indicator |
| UL94 flammability rating | HB |

Insulation coordination

| | | | |
|--|--------------------|---|------------------|
| Rated voltage | 250 V | Pollution severity | 2 |
| Surge voltage category | III | Clearance and creepage distances for control side - load side | ≥ 5.5 mm |
| Dielectric strength for control side - load side | 1.8 kVeff / 1 min. | Dielectric strength of neighbouring contacts | 1 kVeff / 1 min |
| Dielectric strength of open contact | 1 kVeff / 1 min | Impulse withstand voltage | 6 kV (1.2/50 µs) |
| Protection degree | IP20 | | |

Further details of approvals / standards

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E312083 |
|-------------------------|---------|

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



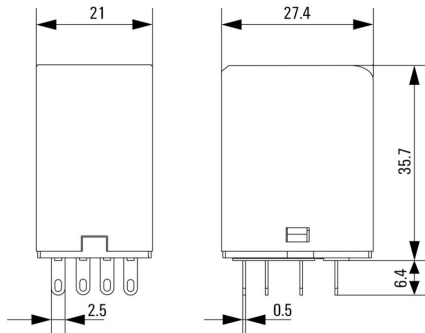
Electrical service life

Graph



DC operational voltage range

Dimensional drawing



Miscellaneous



Type codes

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Accessories

Sockets



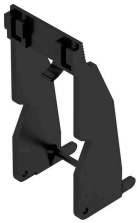
Relay sockets for the D-SERIES DRM relays

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

General ordering data

| | | |
|------------|----------------------------|--|
| Type | FS 4CO | Version |
| Order No. | 7760056107 | D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248855575 | Continuous current: 10 A, Screw connection |
| Qty. | 10 ST | |
| Type | SCM 4CO ECO | Version |
| Order No. | 7760056264 | D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 6944169662973 | Continuous current: 6 A, Screw connection |
| Qty. | 10 ST | |
| Type | SCM 4CO P | Version |
| Order No. | 7760056363 | D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 6944169772276 | Continuous current: 6 A, PUSH IN |
| Qty. | 10 ST | |

Retaining clips



Retaining clip for D-SERIES DRM relays

- Metal and plastic retaining clip

General ordering data

| | | |
|------------|----------------------------|------------------------------|
| Type | DRM/DRL CLIP M | Version |
| Order No. | 7760056108 | D-SERIES, Retaining clip |
| GTIN (EAN) | 4032248855568 | |
| Qty. | 10 ST | |
| Type | SCM CLIP P | Version |
| Order No. | 7760056367 | D-SERIES DRM, Retaining clip |
| GTIN (EAN) | 6944169773334 | |
| Qty. | 5 ST | |

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Accessories

Protection modules



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With free-wheeling diode or RC filter

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | RIM 1 6/230VDC | Version | |
| Order No. | 7760056169 | D-SERIES, Free-wheeling diode, Rated control voltage: 6...230 V, Plug- | |
| GTIN (EAN) | 4032248967728 | in connection | |
| Qty. | 10 ST | | |

LED



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | RIM 3 6/24VUC | Version | |
| Order No. | 7940018457 | D-SERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in | |
| GTIN (EAN) | 4032248878192 | connection | |
| Qty. | 10 ST | | |

LED / free-wheel diode



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED and free-wheeling diode

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | RIM 2 6/24VDC | Version | |
| Order No. | 7760056015 | D-SERIES, LED module with freewheel diode, Rated control voltage: | |
| GTIN (EAN) | 4032248878116 | 6...24 V DC, Plug-in connection | |
| Qty. | 10 ST | | |

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Accessories

LED



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | RIM 3 24/60VUC | Version | |
| Order No. | 7760056018 | D-SERIES, LED module, Rated control voltage: 24...60 V UC, Plug-in connection | |
| GTIN (EAN) | 4032248878130 | | |
| Qty. | 10 ST | | |

LED / free-wheel diode



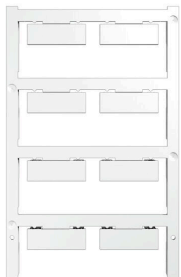
Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED and free-wheeling diode

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | RIM 2 24/60VDC | Version | |
| Order No. | 7760056016 | D-SERIES, LED module with freewheel diode, Rated control voltage: 24...60 V DC, Plug-in connection | |
| GTIN (EAN) | 4032248878123 | | |
| Qty. | 10 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.

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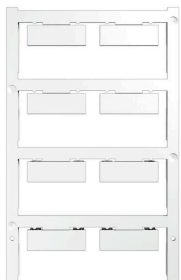
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Accessories

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 9/26 SCM ECO MC NE ... | Version |
| Order No. | 1520980000 | ESG, Device markers x 26 mm, PA 66, Colour: white, pluggable |
| GTIN (EAN) | 4050118327939 | |
| Qty. | 80 ST | |
| Type | ESG 9/26 SCM ECO MC NE ... | Version |
| Order No. | 1521000000 | ESG, Device markers x 26 mm, PA 66, Colour: grey, pluggable |
| GTIN (EAN) | 4050118327878 | |
| Qty. | 80 ST | |
| Type | ESG 9/26 SCM ECO MC NE ... | Version |
| Order No. | 1520990000 | ESG, Device markers x 26 mm, PA 66, Colour: yellow, pluggable |
| GTIN (EAN) | 4050118327861 | |
| Qty. | 80 ST | |

Custom printing



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General ordering data

| | | |
|------------|----------------------------|--|
| Type | ESG 9/26 SCM ECO MC SDR | Version |
| Order No. | 1525800000 | ESG, Device markers x 26 mm, PA 66, Colour: To customer specification, pluggable |
| GTIN (EAN) | 4050118331875 | |
| Qty. | 16 ST | |

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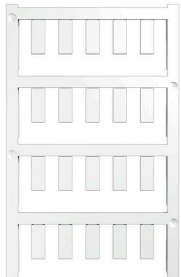
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General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 6/15 K MC NE WS | Version |
| Order No. | 1880100000 | ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478781 | |
| Qty. | 200 ST | |
| Type | ESG 6/15 K MC NE GE | Version |
| Order No. | 1880130000 | ESG, Device markers x 15 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478910 | |
| Qty. | 200 ST | |
| Type | ESG 6/17 K MC NE GE | Version |
| Order No. | 1880110000 | ESG, Device markers x 17 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478798 | |
| Qty. | 200 ST | |
| Type | ESG 6/17 K MC NE WS | Version |
| Order No. | 1880120000 | ESG, Device markers x 17 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478804 | |
| Qty. | 200 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 | | |

Sockets



Relay sockets for the D-SERIES DRM relays

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

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SCM 4CO ECO | Version |
| Order No. | 7760056264 | D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 6944 169662973 | Continuous current: 6 A, Screw connection |
| Qty. | 10 ST | |
| Type | FS 4CO | Version |
| Order No. | 7760056107 | D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248855575 | Continuous current: 10 A, Screw connection |
| Qty. | 10 ST | |
| Type | SCM 4CO P | Version |
| Order No. | 7760056363 | D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 6944 169772276 | Continuous current: 6 A, PUSH IN |
| Qty. | 10 ST | |