

DRM270024LD

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

www.weidmueller.com

Product image



Similar to illustration

dividual relays within the D-SERIES DRM

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

General ordering data

| | |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version | D-SERIES DRM, Relay, Number of contacts: 2, CO contact, AgNi flash gold-plated, Rated control voltage: 24 V DC, Continuous current: 10 A, Plug-in connection |
| Order No. | 7760056077 |
| Type | DRM270024LD |
| GTIN (EAN) | 4032248855780 |
| 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 | 35.3 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 | 650 Ω ± 10 % |
| Status indicator | Green LED | Protective circuit | Free-wheeling diode |

Load side

| | | | |
|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| Rated switching voltage | 250 V AC | Continuous current | 10 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, AC | 250 V |
| Inrush current | 20 A / 50 ms | AC switching capacity (resistive), max. | 2500 VA |
| DC switching capacity (resistive), max. | 240 W @ 24 V | Switch-on delay | <20 ms |
| Switch-off delay | <20 ms | Contact type | 2 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

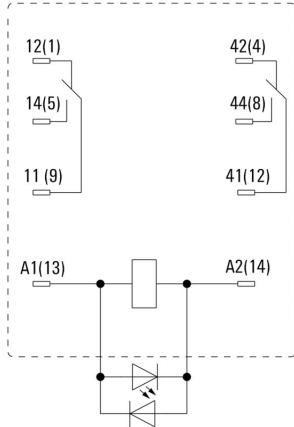
| | |
|------------------------|--------------------|
| Wire connection method | Plug-in connection |
|------------------------|--------------------|

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



Derating curve Relay in combination with base

Graph



DC operational voltage range

Dimensional drawing



Miscellaneous



Type codes

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 2CO | Version |
| Order No. | 7760056106 | D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4032248855582 | Continuous current: 12 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 2CO ECO | Version |
| Order No. | 7760056263 | D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 6944169662966 | Continuous current: 12 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 2CO P | Version |
| Order No. | 7760056362 | D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 6944169772269 | Continuous current: 12 A, PUSH IN |
| 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

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Accessories

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 | | |

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 | | |

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Accessories

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 | | |

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: | |
| GTIN (EAN) | 4032248878123 | 24...60 V DC, Plug-in connection | |
| Qty. | 10 ST | | |

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:

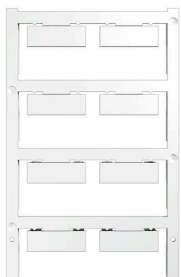
- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

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 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



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

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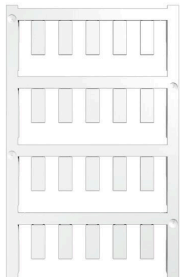
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Accessories

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 | |

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 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 | |

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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. | 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 2CO ECO | Version |
| Order No. | 7760056263 | D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 6944169662966 | Continuous current: 12 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 | FS 2CO | Version |
| Order No. | 7760056106 | D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4032248855582 | Continuous current: 12 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 2CO P | Version |
| Order No. | 7760056362 | D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 6944169772269 | Continuous current: 12 A, PUSH IN |
| 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 | |