

JPR 24VDC 1CO M12**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

The JPR relays in their IP 68 JACKPAC enclosures are available with and without electrical isolation. The switching amplifier amplifies 24 Vdc switch outputs to max. 2 A. The switching voltage at the output is fed via a T-junction.

General ordering data

| | |
|------------|---|
| Version | JACKPAC, Relay module, Number of contacts: 1, CO contact AgSnO, Rated control voltage: 24 V DC $\pm 20\%$, Continuous current: 2 A, M12 plug/socket, A-coded |
| Order No. | 8771420000 |
| Type | JPR 24VDC 1CO M12 |
| GTIN (EAN) | 4032248439621 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Height | 14.4 mm | Height (inches) | 0.567 inch |
| Width | 36 mm | Width (inches) | 1.417 inch |
| Length | 83 mm | Length (inches) | 3.268 inch |
| Net weight | 53.5 g | | |

Temperatures

| | | | |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -25 °C...70 °C | Operating temperature | -25 °C...70 °C |
|---------------------|----------------|-----------------------|----------------|

Input

| | | | |
|--------------------------------|---------------------|--------------------------------|--------------------|
| Rated control voltage | 24 V DC $\pm 20\%$ | Rated control voltage | 24 V DC $\pm 20\%$ |
| Rated current DC | 8 mA | Power rating | 200 mW |
| Pull-in/drop-out voltage, typ. | 16.8 V / 1.2 V DC | Pull-in/drop-out current, typ. | 5 mA / 1 mA DC |
| Protective circuit | Free-wheeling diode | | |

Control side

| | | | |
|-----------------------|---------------------|--------------|--------|
| Rated control voltage | 24 V DC $\pm 20\%$ | Power rating | 200 mW |
| Protective circuit | Free-wheeling diode | | |

Output

| | | | |
|---|---|---------|------|
| Continuous current | Current | 2 A | |
| Max. switching voltage, AC | 48 V | | |
| Max. switching voltage, DC | 24 V | | |
| Continuous current | 2 A | | |
| AC switching capacity (resistive), max. | 48 VA @ 48 V | | |
| AC switching capacity, max. | 48 VA | | |
| Switching capacity | 48 V | | |
| DC switching capacity (resistive), max. | 48 W @ 24 V | | |
| DC switching capacity, max. | 48 W | | |
| Switching capacity | 24 V | | |
| Switch-on delay | approx. 5 ms | | |
| Switch-on delay | ≤ 6 ms | | |
| Switch-on delay | Time | 6 ms | |
| | Time | nominal | 6 ms |
| | Signs | \leq | |
| Switch-off delay | ≤ 12 ms | | |
| Switch-off delay | ≤ 6 ms | | |
| Switch-off delay | Time | nominal | 6 ms |
| | Time | 6 ms | |
| | Signs | \leq | |
| Max. switching frequency at rated load | 0.1 Hz | | |
| Min. switching power | 1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V | | |

Load side

| | | | |
|--------------------|--------------|-----------------|--------------|
| Continuous current | 2 A | Switch-on delay | approx. 5 ms |
| Switch-off delay | ≤ 12 ms | | |

General data

| | | | |
|--------|------|---------------------------|-----|
| Colour | grey | UL 94 flammability rating | V-0 |
|--------|------|---------------------------|-----|

Creation date April 28, 2024 7:56:48 AM CEST

Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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Technical data

Insulation coordination

| | | | |
|------------------------|-------|--------------------|------|
| Rated voltage | 300 V | Pollution severity | 2 |
| Surge voltage category | III | Protection degree | IP67 |

Further details of approvals / standards

| | |
|-------------------------|---------|
| Certificate no. (cULus) | E141197 |
|-------------------------|---------|

Connection data

| | |
|------------------------|--------------------------|
| Wire connection method | M12 plug/socket, A-coded |
|------------------------|--------------------------|

output

| | |
|-------------------------|------------------|
| Switching voltage, max. | 48 V AC; 24 V DC |
|-------------------------|------------------|

Ratings IECEx/ATEX/cUL

| | |
|-------------------------|---------|
| Certificate no. (cULus) | E141197 |
|-------------------------|---------|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001437 | ETIM 7.0 | EC001437 |
| ETIM 8.0 | EC001437 | ETIM 9.0 | EC001437 |
| ECLASS 9.0 | 27-37-16-01 | ECLASS 9.1 | 27-37-16-01 |
| ECLASS 10.0 | 27-37-16-01 | ECLASS 11.0 | 27-37-16-01 |
| ECLASS 12.0 | 27-37-16-01 | ECLASS 13.0 | 27-37-16-01 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 066f3ba0-f03f-48d2-9b27-b897c98936ad |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |

Downloads

| | |
|------------------|--|
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN FL FIELDWIRING EN |

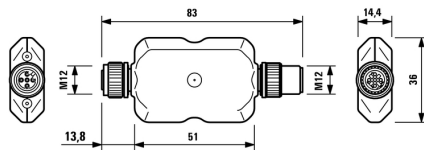
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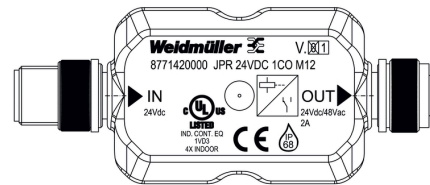
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Drawings

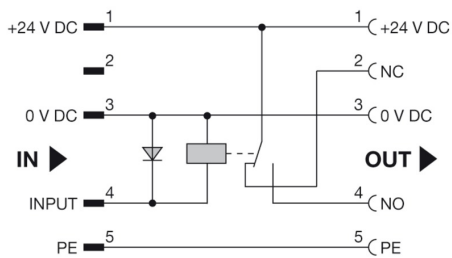
Detailed drawing



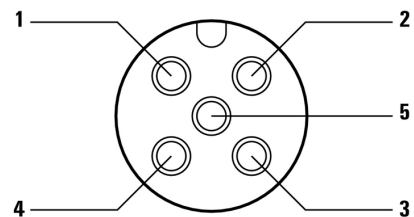
Dimensional drawing



Wiring diagram



Pinning



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Accessories

JACKPAC® Zubehör



Weidmüller is now one of the industry's leading international providers of connectors. An important mainstay in this product family are the circular connectors, which Weidmüller groups under the product name SAI. In the development of SAI products, Weidmüller engineers have always concentrated on achieving rational, cost-effective installation concepts, and – in cooperation with major users – have supplied the markets with well-conceived products which set standards in terms of functionality and quality across the globe. An example is the Jackpac® product family. These modules are waterproof signal converters.

General ordering data

| | | |
|------------|----------------------------|-----------------------|
| Type | JP CLIP M | Version |
| Order No. | 8778490000 | JACKPAC, Relay module |
| GTIN (EAN) | 4032248448418 | |
| Qty. | 10 pc(s). | |

Screwty® cable gland tool with torque function



The ideal tool for any application

Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

General ordering data

| | | | |
|------------|----------------------------|--|-----------|
| Type | SCREWTY-M12-DM | Version | Packaging |
| Order No. | 1900001000 | Cable gland tool for moulded M12 lines | Cardboard |
| GTIN (EAN) | 4032248436408 | | box |
| Qty. | 1 pc(s). | | |

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Accessories

PUR halogen-free black (U)



Sensor/actuator cables are used for wiring sensors and actuators and for transmitting data or power in various applications. The moulded cable offers connected and tested connection of the plug-in connector to the cable ex-works. The cables may be exposed to a wide range of conditions, such as humidity, dust, heat, cold, shock or vibration.

Our developers have focused specifically on this issue and designed a host of different M8 and M12 sensor-actuator cables so you are bound to find the solution you need for your application.

Is there something you have not managed to find or you feel needs explanation? Talk to us!

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SAIL-M12GM12G-5-0.3U | Version |
| Order No. | 9457340030 | Sensor/actuator line, Connecting line, M12 / M12, Number of poles : |
| GTIN (EAN) | 4008190311230 | 5, 0.3 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath |
| Qty. | 1 pc(s). | material: PUR, Halogen: No |
| Type | SAIL-M12GM12G-5-1.5U | Version |
| Order No. | 9457340150 | Sensor/actuator line, Connecting line, M12 / M12, Number of poles : |
| GTIN (EAN) | 4008190311278 | 5, 1.5 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath |
| Qty. | 1 pc(s). | material: PUR, Halogen: No |
| Type | SAIL-M12GM12G-5-0.6U | Version |
| Order No. | 9457340060 | Sensor/actuator line, Connecting line, M12 / M12, Number of poles : |
| GTIN (EAN) | 4008190311247 | 5, 0.6 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath |
| Qty. | 1 pc(s). | material: PUR, Halogen: No |

Distributors



General ordering data

| | | |
|------------|----------------------------|-------------------|
| Type | SAI-Y-5S PARA 2M12 | Version |
| Order No. | 1783430000 | Y-plug, M12 / M12 |
| GTIN (EAN) | 4032248183364 | |
| Qty. | 1 pc(s). | |