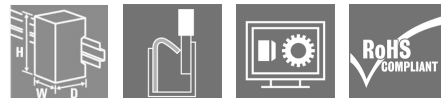


Automation Products - u-remote IP20 UR20-4RO-SSR-255

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Fon: +49 5231 14-0
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Product image



P- or N-switching; short-circuit-proof; up to 3-wire +FE

Digital output modules are available in the following variants: 4DO, 8DO with 2-wire technology, 16DO with or without PLC interface connection. They are used primarily for incorporating decentralised actuators. The digital output modules are available as P- or N-switching variant. All outputs are designed for DC-13 actuators acc. to DIN EN 60947-5-1 and IEC 61131-2 specifications. Just like the digital input modules, frequencies of up to 1 kHz are possible. Maximum system safety is ensured by protecting the outputs. This consists of an automatic restart following a short-circuit. Clearly recognisable LEDs also signal the status of the entire module as well as individual channels.

In addition to the standard applications of the digital output modules, the portfolio also includes special variants, such as the 4RO-SSR module for rapidly switching applications. Fitted with solid state technology, 0.5 A is available for each

output. Furthermore, there is also the 4RO-CO relay module for power-intensive applications. This is equipped with four change-over contacts, optimised for a switching voltage of 277 V AC and designed for a switching current of 6 A. To serve negative switching requirements there is a parameterisable version of the 4-DO Module.

The module electronics supply the connected actuators from the output current path (UOUT).

General ordering data

| | |
|------------|---|
| Type | UR20-4RO-SSR-255 |
| Order No. | 1315540000 |
| Version | Remote I/O module, IP20, Digital signals, Output, Relay |
| GTIN (EAN) | 4050118118445 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|-----------------------------|--------|-----------------|------------|
| Width | 11.5 | Width (inches) | 0.453 inch |
| Height | 120 mm | Height (inches) | 4.724 inch |
| Depth | 76 mm | Depth (inches) | 2.992 inch |
| Mounting dimension - height | 128 mm | Net weight | 85 g |

Temperatures

| | | | |
|-----------------------------|-------------------|-----------------------------|-------------------|
| Operating temperature, max. | 60 °C | Operating temperature, min. | -20 °C |
| Storage temperature, max. | 85 °C | Storage temperature, min. | -40 °C |
| Operating temperature | -20 °C ... +60 °C | Storage temperature | -40 °C ... +85 °C |

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

digital outputs

| | | | |
|----------------------------------|-------------|----------------------------------|------------------------|
| Feedback-free | Yes | Individual channel diagnosis | No |
| Max. response time, high | 10 ms | Max. response time, low | 10 ms |
| Max. switching frequency | 40 Hz | Module diagnosis | Yes |
| Number | 4 | Output current per channel, max. | 1 A |
| Output current per channel, min. | 50 mA | Output current per module, max. | 4 A |
| Short-circuit-proof | No | Switching voltage, max. | 255 V AC, UL: 277 V AC |
| Type | SSR / Triac | | |

Connection data

| | | | |
|--|----------------------|--|----------------------|
| Type of connection | PUSH IN | Wire connection cross section, finely stranded, max. | 1.5 mm ² |
| Wire connection cross-section, finely stranded, min. | 0.14 mm ² | Wire cross-section, finely stranded, max. (AWG) | AWG 16 |
| Wire cross-section, finely stranded, min. (AWG) | AWG 26 | Wire cross-section, solid, max. | 1.5 mm ² |
| Wire cross-section, solid, max. (AWG) | AWG 16 | Wire cross-section, solid, min. | 0.14 mm ² |
| Wire cross-section, solid, min. (AWG) | AWG 26 | | |

General data

| | | | |
|---------------------------|--|--------------------------|--|
| Air humidity (operation) | 10% to 95%, non-condensing as per DIN EN 61131-2 | Air humidity (storage) | 10% to 95%, non-condensing as per DIN EN 61131-2 |
| Air humidity (transport) | 10% to 95%, non-condensing as per DIN EN 61131-2 | Air pressure (operation) | ≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2 |
| Air pressure (storage) | 1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2 | Air pressure (transport) | 1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2 |
| Pollution severity | 2 | Shock | 15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27 |
| Surge voltage category | II | Test voltage | 500 V |
| UL 94 flammability rating | V-0 | Vibration resistance | 5 Hz ≤ f ≤ 8.4 Hz: 3.5-mm amplitude as per IEC 60068-2-6, 8.4 Hz ≤ f ≤ 150 Hz: 1 g acceleration as per IEC 60068-2-6 |

Creation date July 8, 2020 8:04:29 AM CEST

Catalogue status 08.07.2020 / We reserve the right to make technical changes.

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Power supply

| | | | |
|---|--|--|---------|
| Current consumption from I _{IN} (power segment of the field bus coupler), typ. | 8 mA | Current consumption from I _{OUT} (the respective power segment) | < 15 mA |
| Voltage supply | 24 V DC +20 %/ -15 %, via the system bus | | |

System data

| | | | |
|--------------------|------------------------------------|--|--|
| Diagnostic data | 1 Bit | Field bus protocol | CANopen, DeviceNet, EtherCAT, EtherNet/IP, Modbus/TCP, PROFINET IRT, PROFIBUS DP-V1, POWERLINK |
| Galvanic isolation | 500 V DC between the current paths | Interface | u-remote system bus |
| Module type | Digital output module | Possible connection | Single-conductor, 2-wire |
| Process data | 4 Bit | Transmission speed of system bus, max. | 48 Mbit |

Classifications

| | | | |
|-------------|-------------|------------|-------------|
| ETIM 6.0 | EC001597 | ETIM 7.0 | EC001597 |
| eClass 9.0 | 27-24-26-02 | eClass 9.1 | 27-24-26-02 |
| eClass 10.0 | 27-24-26-02 | | |

Approvals

Approvals



ROHS Conform

Downloads

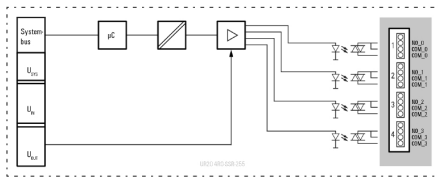
| | |
|---|--|
| Approval/Certificate/Document of Conformity | Declaration of Conformity Compass safe distance certificate Lloyds Register certificate DNV/GL certificate ABS certificate RINA certificate Bureau Veritas - Type Approval Certificate PRS (Polish Register of Shipping) NIPPON KAIJI KYOKAI Certificate |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP |
| User Documentation | MAN U-REMOTE DE MAN U-REMOTE EN |

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Drawings

Block diagram



Connection diagram

