

**Remote-I/O - u-remote
UR20-4RO-SSR-255****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

**Positively-switching; short-circuit-proof; up to 3-wire + FE**

Digital output modules are available in the following variants: 4 DO, 8 DO with 2- and 3-wire technology, 16 DO with or without PLC interface connection. They are mainly used for the incorporation of decentralised actuators. All outputs are designed for DC-13 actuators acc. to DIN EN 60947-5-1 and IEC 61131-2 specifications. As with the digital input modules, frequencies of up to 1 kHz are possible. Protection of the outputs ensures maximum system safety. This consists of an automatic restart following a short-circuit. Clearly visible LEDs signal the status of the entire module as well as the status of individual channels.

In addition to the standard applications of the digital output modules, the range also includes special variants such as the 4RO-SSR module for rapidly switching applications. Fitted with solid state technology, 0.5 A is available here to each output. Furthermore, there is also the 4RO-CO relay module for power-intensive applications. It equipped with four CO contacts, optimised for a switching voltage of 255 V UC and designed for a switching current of 5 A.

The module electronics supply the connected actuators from the output current path (U_{OUT}).

General ordering data

| | |
|------------|--|
| Type | UR20-4RO-SSR-255 |
| Order No. | 1315540000 |
| Version | Remote I/O module, IP 20, Digital signals, Output, Relay |
| GTIN (EAN) | 4050118118445 |

Remote-I/O - u-remote UR20-4RO-SSR-255

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data

Dimensions and weights

| | | | |
|--------|---------|-----------------------------|--------|
| Width | 11.5 mm | Height | 120 mm |
| Depth | 76 mm | Mounting dimension - height | 128 mm |
| Weight | 83 g | Net weight | 85 g |

Temperatures

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

digital outputs

| | | | |
|---------------------------------|--------|--------------------------------|-------------|
| Feedback-free | Yes | Individual channel diagnosis | No |
| Max. output current per channel | 500 mA | Max. output current per module | 2,000 mA |
| Max. response time, high | 100 ms | Max. response time, low | 100 ms |
| Module diagnosis | Yes | Number | 4 |
| Short-circuit-proof | No | 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 | 25 g over 6 ms, half sine wave, 1000 shocks per axis and direction as per IEC 60068-2-27 |
| Surge voltage category | II | Test voltage | 500 V |
| UL 94 flammability rating | V-0 | Vibration-proof | 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 |

Power supply

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

Remote-I/O - u-remote UR20-4RO-SSR-255

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data

System data

| | | | |
|--|--------------------------|--------------------|------------------------------------|
| Diagnostic data | 1 Bit | Galvanic isolation | 500 V DC between the current paths |
| Interface | u-remote system bus | Module type | Digital output module |
| Possible connection | 1 conductor, 2 conductor | Process data | 4 Bit |
| Transmission speed of system bus, max. 48 Mbit | | | |

Classifications

| | |
|------------|-------------|
| eClass 6.2 | 27-24-26-04 |
|------------|-------------|

Remote-I/O - u-remote UR20-4RO-SSR-255

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

