

UR20-FBC-PN-ECO

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



Similar to illustration

More performance. Simplified. u-remote.

Weidmüller u-remote – our innovative remote I/O concept with IP 20 which focuses purely on user benefits: tailored planning, faster installation, safer start-up, and no more downtime for considerably improved performance and greater productivity.

Reduce the size of your cabinets with u-remote, thanks to the narrowest modular design on the market and the need for fewer power-feed modules. Our u-remote technology offers tool-free assembly while the modular “sandwich” design and integrated web server speed up installation, both in the cabinet and machine. Status LEDs on the channel and each u-remote module enable reliable diagnosis and rapid service.

Our products boost the availability of your machines and systems, and ensure smooth processes, from planning to operation.

u-remote stands for “More Performance.” Simplified.

General ordering data

| | |
|-------------------|--|
| Version | Remote I/O fieldbus coupler, IP20, PROFINET RT |
| Order No. | 2659680000 |
| Type | UR20-FBC-PN-ECO |
| GTIN (EAN) | 4050118674057 |
| Qty. | 1 pièce(s) |
| Replacement parts | 2702590000 |

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Caractéristiques techniques

Dimensions and weights

| | | | |
|------------|--------|-----------------|------------|
| Depth | 76 mm | Depth (inches) | 2,992 inch |
| Height | 120 mm | Height (inches) | 4,724 inch |
| Width | 52 mm | Width (inches) | 2,047 inch |
| Net weight | 247 g | | |

Temperatures

| | | | |
|---------------------|-------------------|-----------------------|-----------------|
| Storage temperature | -40 °C ... +85 °C | Operating temperature | 0 °C ... +50 °C |
|---------------------|-------------------|-----------------------|-----------------|

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 |
| Rail | TS 35 | 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 |

Power supply

| | | | | | | | |
|---|--|---------|-----------|------|-----------|------|-----------|
| Current consumption from I _{sys} , typ. | 80 mA | | | | | | |
| Feed current for I _{IN} (input current path) | <table border="1"> <tr> <td>nominal</td> <td>10 000 mA</td> </tr> <tr> <td>max.</td> <td>10 000 mA</td> </tr> <tr> <td>min.</td> <td>10 000 mA</td> </tr> </table> | nominal | 10 000 mA | max. | 10 000 mA | min. | 10 000 mA |
| nominal | 10 000 mA | | | | | | |
| max. | 10 000 mA | | | | | | |
| min. | 10 000 mA | | | | | | |
| Feed current for I _{IN} (input current path), max. | 10 A | | | | | | |
| Feed current for the system, max. | 4 A | | | | | | |
| Supply voltage system and inputs | 24 V DC +20 %/ -15 % | | | | | | |
| Voltage supply | 24 V DC +20 %/ -15 %, via the system bus | | | | | | |

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System data

| | | | |
|--------------------------------------|----------------------------|---|---------------------|
| Connection type | 2x RJ45 plug-in connectors | Diagnostic data | 1 408 Byte |
| Fast Startup | Yes | Fast Startup Time, max. | 500 ms |
| Field bus protocol | PROFINET RT | Interface | u-remote system bus |
| Module type | Bus coupler | Parameter data | 4 362 kByte |
| Process data | 1 024 Byte | Profinet system redundancy S2 available | No |
| Transmission rate of field bus, max. | 100 Mbit/s | Transmission speed of system bus, max. | 48 Mbit/s |
| Type of redundancy protocol | MRP | max. number of modules | 16 |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001603 | ETIM 7.0 | EC001603 |
| ETIM 8.0 | EC001603 | ETIM 9.0 | EC001603 |
| ECLASS 9.0 | 27-24-26-07 | ECLASS 9.1 | 27-24-26-07 |
| ECLASS 10.0 | 27-24-26-07 | ECLASS 11.0 | 27-24-26-07 |
| ECLASS 12.0 | 27-24-26-07 | ECLASS 13.0 | 27-24-26-07 |
| ECLASS 14.0 | 27-24-26-07 | | |

Environmental Product Compliance

| | |
|--------------------------------------|--|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1 |
| SCIP | 98e19a7e-033b-4e68-93e3-c47b30de875e |

Important note

Product information The matching end brackets are included with the coupler.

Approvals

Approvals



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

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Caractéristiques techniques

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | KC certificate UKCA Declaration of Conformity - EN CE Declaration of Conformity - DE 20211018 Security Advisory – Remote I/O fieldbus couplers (IP20) affected by INFRA:HALT vulnerabilities |
| Engineering Data | Compatibility information – Combinability of UR20 CAD data – STEP |
| Product Change Notification | Release-Notes - Firmware, GSDML and Supported modules list |
| Software | Library and function block – Language_Pack_UR20_FBC Firmware – Current Firmware file PROFINET ECO coupler Device description – Current GSDML file PROFINET ECO coupler Firmware – Archiv Firmware files PROFINET-ECO coupler Device description – Archive-GSDML_PROFINET-ECO coupler |
| User Documentation | Handbuch u-remote DE Manual u-remote EN Security Data Sheet u-remote FB Coupler V1.0 Application notes – Industrial Product Security Guideline |
| Catalogues | Catalogues in PDF-format |

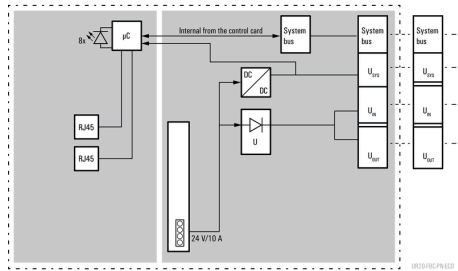
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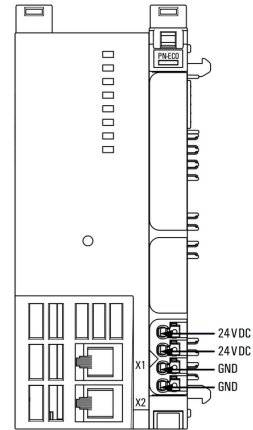
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Block diagram



Connection diagram



Explanation of abbreviations

Field bus coupler ECO

