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UNITED KINGDOM CONFORMITY ASSESSMENT TYPE EXAMINATION CERTIFICATE

[2] **Product or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

[3] Type Examination Certificate No.: **UL21UKEX2094X Rev.0**

[4] Product: **Interface Modules, Open Type Programmable Controllers
– Series UR20 u-remote**

[5] Manufacturer: **Weidmüller Interface GmbH & Co. KG**

[6] Address: **Klingenbergstrasse 26, 32758 Detmold, Germany**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International (UK) Ltd certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. The examination and test results are recorded in the confidential report **UKRCC-4789880974.1**.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7: 2015+A1:2018 EN IEC 60079-15:2019

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[10] If the sign “X” is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

[11] This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 3 G Ex ec nC IIC T4 Gc (model UR20-4RO-CO-255 only)**

 **II 3 G Ex ec IIC T4 Gc (all other models)**

Certification Manager
David Lloyd

This is to certify that the sample(s) of the Product described herein (“Certified Product”) has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the Ex UK Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL’s prior written approval.

Date of issue: 2021-12-21

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Schedule

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[15] Description of Product

The Interface modules, Open Type Programmable Controllers – Series UR20 u-remote modules are intended to be used in combination with programmable controllers and intended to be used for communication and input / output purposes. The system consists of Bus Coupler Modules and Input / Output Modules with different functions.

The Input and Output Modules are consisting of a base module with connections to the communication bus and power sources, different electronic modules and a modular terminal block module.

Models: UR20-FBC-PN-IRT, UR20-FBC-EC, UR20-FBC-MOD-TCP, UR20-FBC-PB-DP, UR20-4DI-P, UR20-16DI-P, UR20-16DI-P-PLC-INT, UR20-4DO-P, UR20-4DO-P-2A, UR20-8DO-P, UR20-16DO-P, UR20-16DO-P-PLC-INT, UR20-4RO-CO-255, UR20-4AI-UI-16, UR20-8AI-I-PLC-INT, UR20-4AO-UI-16, UR20-4AO-UI-16-DIAG, UR20-4AI-UI-16-DIAG, UR20-4AI-RTD-DIAG, UR20-4AI-TC-DIAG, UR20-PF-I, UR20-PF-O, UR20-16AUX-GND-I, UR20-16AUX-I, UR20-16AUX-GND-O, UR20-16AUX-O, UR20-16AUX-FE, UR20-8DI-P-3W, UR20-ES, UR20-FBC-EIP, UR20-1CNT-100-1DO, UR20-2CNT-100, UR20-2DI-P-TS, UR20-2FCNT-100, UR20-2PWM-PN-0.5A, UR20-2PWM-PN-2A, UR20-4AI-UI-12, UR20-4AI-UI-16-DIAG-HD, UR20-4AI-UI-16-HD, UR20-4DI-P-TS, UR20-4DO-PN-2A, UR20-4RO-SSR-255, UR20-8DI-P-2W, UR20-8DI-P-3W-HD, UR20-PF-O-1DI-SIL, UR20-PF-O-2DI-DELAY-SIL, UR20-PF-O-2DI-SIL, UR20-1COM-232-485-422, UR20-1SSI, UR20-4DI-2W-230-AC, UR20-8AI-I-16-DIAG-HD, UR20-8AI-I-16-HD, UR20-16DO-N, UR20-4DI-N, UR20-8DO-P-2W-HD, UR20-16DI-N, UR20-1CNT-500, UR20-4DO-N, UR20-4DO-N-2A, UR20-8DI-N-3W, UR20-8DO-N, UR20-4DI-4DO-PN-FSPS, UR20-4DI-4DO-PN-FSOE, UR20-8DI-PN-FSPS, UR20-8DI-PN-FSOE, UR20-FBC-CAN, UR20-FBC-DN, UR20-4AO-UI-16-DIAG-HD, UR20-4AO-UI-16-HD, UR20-1COM-SAI-PRO, UR20-4AI-R-HS-16-DIAG, UR20-16DO-N-PLC-INT, UR20-16DI-N-PLC-INT, UR20-FBC-PL, UR20-FBC-MOD-TCP-V2, UR20-4AO-UI-16-M, UR20-4AO-UI-16-M-DIAG, UR20-4AI-UI-DIF-16-DIAG, UR20-4AI-UI-DIF-32-DIAG, UR20-4COM-IO-LINK, UR20-4AI-RTD-HP-DIAG, UR20-4DI-4DO-PN-FSPS-V2, UR20-4DI-4DO-PN-FSOE-V2, UR20-8DI-PN-FSPS-V2, UR20-8DI-PN-FSOE-V2, UR20-2AI-SG-24-DIAG, UR20-FBC-PN-IRT-V2, UR20-1SSI-BTL, UR20-8AI-RTD-DIAG-2W, UR20-8DIO-P-3W-DIAG, UR20-1SM-50W-6DI2DO-P, UR20-FBC-CC, UR20-FBC-PB-DP-V2, UR20-8DI-ISO-2W, UR20-4AI-I-HART-16-DIAG, UR20-4AI-UI-ISO-16-DIAG, UR20-1COM-CANOPEN, UR20-FBC-CC-TSN, UR20-2AO-UI-16-DIAG, UR20-2AO-UI-16, UR20-2AO-UI-ISO-16-DIAG, UR20-4DO-ISO-4A, UR20-2AI-UI-16, UR20-2AI-UI-16-DIAG, may be followed by additional characters.

Model UR20-4RO-CO-255 is protected by “ec nC” concept, all other models are “ec” concept.

Ratings

Model	Type	Main Input	Auxiliary Input / Output
UR20-FBC-PN-IRT UR20-FBC-PN-IRT-V2	Bus Coupler ProfiNet IRT	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
UR20-FBC-EC	Bus Coupler EtherCat	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
UR20-FBC-MOD-TCP	Bus Coupler ModBus TCP	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C



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Model	Type	Main Input	Auxiliary Input / Output
UR20-FBC-PB-DP	Bus Coupler Profibus DP	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
UR20-FBC-EIP	Bus Coupler Ethernet IP	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
UR20-FBC-CAN UR20-FBC-DN	Bus Coupler CANopen	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 10A at 60°C
UR20-FBC-PL	Bus Coupler Powerlink	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 8A at 60°C, horizontal mounting, 6A at 55°C, vertical mounting
UR20-FBC-MOD-TCP-V2	Bus Coupler Modbus/TC P	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 8A at 60°C, horizontal mounting, 6A at 55°C, vertical mounting
UR20-4DI-P UR20-2DI-P-TS UR20-4DI-P-TS UR20-4DI-N	2 or 4 Digital Inputs	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC sensor supply: 24Vdc, 2A resistive maximum per sensor, unfused
UR20-16DI-P UR20-16DI-N	16 Digital Inputs	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC
UR20-16DI-N-PLC-INT	16 Digital Inputs	rated voltage: 24V DC from the 4 pole terminal block of the module	rated voltage: 24V DC
UR20-16DI-P-PLC-INT	16 Digital Inputs	rated voltage: 24V DC from the 4 pole terminal block of the module	rated voltage: 24V DC sensor supply: 24V dc, 1A maximum per pole, unfused



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Model	Type	Main Input	Auxiliary Input / Output
UR20-4DO-P UR20-4DO-N	4 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current (DO): 0.5A resistive maximum per output sensor supply (auxiliary 24VDC): 2A maximum per sensor, unfused
UR20-4DO-P-2A UR20-4DO-N-2A	4 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current (DO): 2A resistive or tungsten maximum per output sensor supply (auxiliary 24VDC): 2A maximum per sensor, unfused Total current: 10A per module
UR20-8DO-P UR20-8DO-P-2W-HD UR20-8DO-N	8 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current: 24Vdc, 0.5A resistive or tungsten maximum per output
UR20-16DO-P UR20-16DO-N	16 Digital Outputs	rated voltage: 24V DC from internal bus	rated voltage: 24V DC output current: 24Vdc, 0.5A resistive or tungsten maximum per output
UR20-16DO-N-PLC-INT	16 Digital Outputs	rated voltage: 24V DC from the 4 pole terminal block of the module	24V DC 0.5 A General Purpose (per output channel)
UR20-16DO-P-PLC-INT	16 Digital Outputs	rated voltage: 24V DC from the 4 pole terminal block of the module	rated voltage: 24V DC output current (auxiliary supply): 24Vdc, 1A maximum per pole, unfused
UR20-4RO-CO-255	4 Relay Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 250Vac rated current: 2.4A per channel at 60°C and 3A per channel at 55°C
UR20-4AI-UI-16 UR20-4AI-UI-12 UR20-4AI-UI-16-HD UR20-8AI-I-16-DIAG-HD UR20-8AI-I-16-HD	4 or 8 Analog Inputs	rated voltage: 24V DC from internal I bus	type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA sensor supply: 24Vdc, 2A maximum per sensor, unfused, 0.5A for HD version, fused
UR20-8AI-I-PLC-INT	8 Analog Inputs	rated voltage: 24V DC from the 4 pole terminal block of the module	type of input: analog 0..20mA or 4..20mA sensor supply: 24Vdc, 1A maximum, fused
UR20-4AO-UI-16 UR20-4AO-UI-16-DIAG UR20-4AO-UI-16-DIAG-HD UR20-4AO-UI-16-HD	4 Analog Outputs	rated voltage: 24V DC from internal O bus	type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA
UR20-2AO-UI-16 UR20-2AO-UI-16-DIAG	2 Analog Outputs	rated voltage: 24V DC from internal O bus	type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA
UR20-4AI-UI-16-DIAG UR20-4AI-UI-16-DIAG-HD	4 Analog Inputs	rated voltage: 24V DC from internal I bus	type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA sensor supply: 24Vdc, 0.5A fused
UR20-2AI-UI-16 UR20-2AI-UI-16-DIAG	2 Analog Inputs	rated voltage: 24V DC from internal I bus	type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA sensor supply: 2A maximum per sensor, unfused.



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Model	Type	Main Input	Auxiliary Input / Output
UR20-4AI-RTD-DIAG UR20-4AI-RTD-HP-DIAG UR20-8AI-RTD-DIAG-2W	4 or 8 Analog Inputs Resistive Temperature Detection	rated voltage: 24V DC from internal I bus	type of input: analog Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni 200, Ni500, Ni1000, Cu10, 40 Ω , 80 Ω , 150 Ω , 300 Ω , 500 Ω , 1 k Ω , 2 k Ω , 4 k Ω
UR20-4AI-TC-DIAG	4 Analog Inputs Thermocouple	rated voltage: 24V DC from internal I bus	type of input: analog TC type J, K, T, B, N, E, R, S, L, U, C, mV +/-15.625mV, +/-31.25mV, +/-62.5mV, +/-125mV +/-250mV, 500mV, +/-1000mV, +/-2000mV
UR20-PF-I	Power Feed Input	rated voltage: 24V DC from 4 pole terminal block	rated voltage: 24V DC rated current: 10A
UR20-PF-O	Power Feed Output	rated voltage: 24V DC from the 4 pole terminal block	rated voltage: 24V DC rated current: 10A
UR20-16AUX-GND-I UR20-16AUX-I UR20-ES	Potential Distribution Module for Input Current Path	rated voltage: 24V DC from internal I bus	0V / GND rated current: 10A
UR20-16AUX-GND-O UR20-16AUX-O UR20-16AUX-FE	Potential Distribution Module for Output Current Path	rated voltage: 24V DC from internal O bus	0V / GND rated current: 10A
UR20-8DI-P-3W UR20-8DI-P-2W UR20-8DI-P-3W-HD UR20-8DI-N-3W	8 Digital Inputs	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC sensor supply: 24Vdc, 2A maximum per sensor unfused, HD version FWT 1 to 4: 0.5A maximum total current, FWT 5 to 8: 0.5A maximum total current
UR20-2FCNT-100 UR20-1CNT100-1DO UR20-2CNT-100	Counter with or without digital output	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC output current 1CNT-1DO: 0.5A resistive maximum per output sensor supply: 24Vdc, 2A maximum per sensor unfused
UR20-2PWM-PN-0.5A UR20-2PWM-PN-2A	Pulse Width Controller with 0.5A or 2A output	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current: 0.5(for ...PN-0.5A models) 2A (for ...PN-2A models) resistive maximum per output sensor supply: 24Vdc, 2A maximum per sensor unfused
UR20-4DO-PN-2A	4 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current: 2A resistive or tungsten maximum per output sensor supply: 24Vdc, 2A maximum per sensor, unfused total current per module: 10A maximum



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Model	Type	Main Input	Auxiliary Input / Output
UR20-4RO-SSR-255	4 Solid State Relay Outputs		rated voltage: 24V DC SSR rated voltage: 250Vac SSR rated current: 1A resistive maximum per channel, unfused
UR20-PF-O-1DI-SIL UR20-PF-O-2DI-SIL UR20-PF-O-2DI-DELAY-SIL	Power Feed Output	rated voltage: 24V DC from the 4 pole terminal block of the module	rated voltage: 24V DC rated current: OSSD: 8A resistive SSI: 0.5A resistive
UR20-1COM-232-485-422 UR20-1SSI-BTL	1 Port Digital Interface	rated voltage: 24 V DC from internal I bus	Data interface signal: 232, 485 or 422 Load sensor supply: 0.4A (5V) or 0.5A (24V)
UR20-1SSI	1 Port Synchron Serial Input Card	rated voltage: 24V DC from internal I bus	1 RS422 Output 2 RS422 Input
UR20-1CNT-500	1 Port Counter Inout Card for Incremental Encoder	rated voltage: 24V DC from internal I bus	3 RS422 Inputs
UR20-4DI-4DO-PN-FSPS UR20-4DI-4DO-PN-FSPS-V2 UR20-4DI-4DO-PN-FSOE UR20-4DI-4DO-PN-FSOE-V2	4 digital inputs and 4 digital outputs	rated voltage: 24V DC from internal bus	Load output rail: 6.4A Load input rail: 10A Load bus rail: 2.56A Input Signal P-Mode: 24V / N-Mode: 0V Load Sensor Supply: 0.8A, each channel Load Output signal: 0.5A, each channel
UR20-8DI-PN-FSPS UR20-8DI-PN-FSPS-V2 UR20-8DI-PN-FSOE UR20-8DI-PN-FSOE-V2	8 digital inputs	rated voltage: 24V DC from internal I bus	Load output rail: 6.4A Load input rail: 10A Load bus rail: 2.56A Input Signal P-Mode: 24V / N-Mode: 0V Load Sensor Supply: 0.8A, each channel Load Output signal: 0.5A, each channel
UR20-4DI-2W-230V-AC	4 Digital Inputs	rated voltage: 24 V	Rated input voltage: 230V AC
UR20-1COM-SAI-PRO	1 Port Communication Extension	rated voltage: 24V DC from internal I bus	Input signal: SAI-PRO-Module Load sensor supply: 3A
UR20-4AI-R-HS-16-DIAG	AI Module 4 analog inputs	Rated voltage: 24V DC from internal I bus	Type of input: analog 300Ohm..50kOhm Potentiometer supply (internal 10V DC): 50mA maximum per potentiometer, unfused
UR20-2AI-SG-24-DIAG	Strain Gauge module 2 Analog Inputs	5Vdc system bus 24V DC from internal I bus	rated voltage: 24V DC



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Model	Type	Main Input	Auxiliary Input / Output
UR20-4AO-UI-16-M UR20-4AO-UI-16-M-DIAG	AO Module 4 analog outputs	5Vdc system bus 24V DC from internal O bus	Voltage: 0..5V, $\pm 5V$, 0..10V, $\pm 10V$, 1..5V, 2..10V Current: 0..20mA, 4..20mA
UR20-4AI-UI-DIF-16-DIAG UR20-4AI-UI-DIF-32-DIAG	AI Module 4 analog inputs	5Vdc system bus 24V DC from internal I bus	Voltage: 0..5V, $\pm 5V$, 0..10V, $\pm 10V$, 1..5V, 2..10V Current: 0..20mA, 4..20mA
UR20-4COM-IO-LINK	Comm. Module	5Vdc system bus 24V DC from internal I bus	0,5 A per channel, total max. 2 A
UR20-8DIO-P-3W-DIAG	Digital I/O Module	5Vdc system bus: 8mA 24Vdc output rail: 34mA + 4*0.3 A sensor supply	8 output channels ≤ 0.5 A each
UR20-1SM-50W-6DI2DO-P	Stepper Motor Module	5Vdc system bus: 8mA 24Vdc input current path: 27 mA 24Vdc output current path: 10 mA	2 output channels ≤ 0.5 A each 6 input channels max. 0.5 A each For 40°C ambient: Stepper motor supply 50 V, 2 A; For 60°C ambient: Stepper motor supply 30 V, 1 A
UR20-FBC-PB-DP-V2	Bus Coupler Profibus DP	Input voltage I port: DC 24V +20%/-15% Input current at I port at full load: $\leq 10A$ Input voltage O port: DC 24V +20%/-15% Input current at O port at full load: $\leq 10A$	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 10A at 60°C, horizontal mounting.
UR20-FBC-CC	Bus Coupler CC-Link	Input voltage I port: DC 24V +20%/-15% Input current at I port at full load: $\leq 10A$ Input voltage O port: DC 24V +20%/-15% Input current at O port at full load: $\leq 10A$	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 10A at 60°C, horizontal mounting.
UR20-8DI-ISO-2W	DI module 8 digital inputs	5 V DC 8 mA from system bus	24 Vdc and 48 Vdc input types
UR20-4AI-I-HART-16-DIAG	AI Module 4 analog inputs	Rated voltage: 24V DC from internal I bus	Type of input: analog HART 0..20mA or 4..20mA; Sensor supply (auxiliary 24V DC):0.5A maximum per sensor, fused
UR20-4AI-UI-ISO-16-DIAG	AI Module 4 analog inputs	Rated voltage: 24V DC from internal I bus	Type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA
UR20-1COM-CANOPEN	1 port Communication module	Rated voltage: 24V DC from internal I bus	Data interface signal: CANopen bus
UR20-FBC-CC-TSN	CC-Link IE TSN Fieldbus Coupler	System supply: SELV 24Vdc +20%/-15% Supply for I/O rails: SELV 24Vdc +20%/-15% Rail current in/out: 10A max. (horizontal mounting, 60°C surrounding air temperature)	System bus: 5Vdc +/-2%, 2.56A full load
UR20-2AO-UI-ISO-16-DIAG	AO Module 2 isolated analog outputs	Rated voltage: 24V DC from internal O bus	type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA



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Model	Type	Main Input	Auxiliary Input / Output
UR20-4DO-ISO-4A	DO Module 4 isolated digital outputs	Rated voltage: 24V DC from internal O bus	Rated voltage: 48V DC / 24V AC (from external supply; not from O bus) output current: 4A DC / 2A AC maximum per output; Total current per module: 16A DC / 8A AC maximum

The optical radiation output of the product with respect to explosion protection, according to Schedule 1 clause 16 of the Regulation 2016 No. 1107 (as amended by UKSI 2019:696) is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015 .

Temperature range

The ambient temperature range is -20 °C to +60 °C unless otherwise specified in the table above.

Electrical data

Input = 24Vdc. Other ratings as per the above table.

Routine tests

According to EN IEC 60079-7, clause 7.1 in combination with clause 6.1, a dielectric strength test has to be carried out at 100% of the products. Alternatively, routine tests may be performed on a statistical basis according to ISO 2859-1 with an acceptance quality limit (AQL) of 0,04. Routine test is to be carried out according to the applicable industry standard.

[16]

Test Report No. (associated with this certificate issue)
DK/ULD/ExTR15.0014/09.

[17]

Specific conditions of use:

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN 60079-0, accessible only by the use of a tool.
- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- When using relay modules (UR20-4RO-CO-255; UR20-4RO-SSR-255) in explosive atmosphere: Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.

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Conditions of certification:
None.

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Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

Additional information

The trademark **Weidmüller**  will be used as the company identifier on the marking label.

The manufacturer shall inform the approved body concerning all modifications to the technical documentation as described in Annex III to UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1.



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[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
UR20-1CNT-100-1DO	3 55820	3	2012-06-12
	55820	3	2012-06-06
UR20-2CNT-100	3 55845	3	2012-06-06
	55845	3	2012-06-06
UR20-2DI-P-TS	3 57790	0	2013-09-27
	57790	0	2013-09-27
UR20-2FCNT-100	3 59300	2	2014-03-17
	59300	2	2014-03-17
UR20-2PWM-0.5A	3 55846	0	2013-06-08
	55846	0	2013-06-08
UR20-2PWM-02A	3 55847	0	2013-06-08
	55847	0	2013-06-08
UR20-4AI-RTD-DIAG	3 60751	2	2017-05-29
	4 60751	2	2017-05-29
UR20-4AI-RTD-HP-DIAG	3 65093	1	2017-05-29
	4 65093	1	2017-05-29
UR20-4AI-TC-DIAG	3 60719	2	2017-05-29
	4 60719	2	2017-05-29
UR20-4AI-UI-16-DIAG UR20-2AI-UI-16-DIAG	3 65115	2	2017-07-31
	4 65115	2	2017-05-03
UR20-4AI-UI-16-HD	3 57805	A	2013-10-01
	57805	A	2013-10-01
UR20-4AI-UI-16 UR20-4AI-UI-12 UR20-2AI-UI-16	3 65114	2	2017-07-31
	4 65114	2	2017-05-03
UR20-4AO-UI-16-DIAG UR20-4AO-UI-16 UR20-2AO-UI-16-DIAG UR20-2AO-UI-16	60750, Sheets 4-8	5	2020-09-21
	60750, Sheets 9-10	5	2020-09-21
UR20-4DI-P	3 54496	5	2012-06-27
	4 5446	5	2012-06-27
UR20-4DI-P-TS	3 57789	0	2013-09-27
	57789	0	2013-09-27
UR20-4DO-P-2A	3 60725	1	2017-06-12
	4 60725	1	2017-06-12
UR20-4DO-P	3 60723	1	2015-12-16
	4 60723	1	2015-12-16
UR20-4DO-PN-2A	3 56116	0	2013-04-02
	56116	0	2013-04-02
UR20-4RO-CO-255	3 55819	2	2013-03-21
	4 55819	2	2013-03-21
	4 56105	4	2013-03-21
UR20-4RO-SSR-255	3 55818	3	2013-09-30
	55819	3	2013-09-30



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UR20-8AI-I-PLC-INT	3 55824	4	2012-10-01
	4 55824	4	2012-10-01
UR20-8DI-P-2W	3 60731	1	2017-06-26
	4 60731	1	2017-06-26
UR20-8DI-P-3W	3 60732	2	2017-06-26
	4 60732	2	2017-06-26
UR20-8DI-P-3W-HD	3 55810	C	2013-12-13
	55810	C	2013-12-13
UR20-8DO-P	3 66239	3	2017-12-13
	4 66239	3	2017-12-13
UR20-16AUX-FE	3 55832	2	2012-11-09
	4 55832	2	2012-11-09
UR20-16AUX-GND-I	3 55833	2	2012-11-07
	4 55833	2	2012-11-07
UR20-16AUX-GND-O	3 55834	3	2012-11-07
	4 55834	3	2012-11-07
UR20-16AUX-I	3 55830	2	2012-11-07
	4 55830	1	2012-11-07
UR20-16AUX-O	3 55831	3	2012-11-07
	4 55831	3	2012-11-07
UR20-16DI-P-PLC-INT	3 55812	3	2012-07-30
	4 55812	3	2012-07-30
UR20-16DI-P	3 60720	5	2017-06-21
	4 60720	5	2017-06-21
UR20-16DO-P-PLC-INT	3 55817	3	2013-04-30
	4 55817	3	2013-04-30
UR20-16DO-P	3 66240	02	2017-12-13
	4 66240	02	2017-12-13
UR20-ES	3 56118	2	2012-11-09
	4 56118	1	2012-11-09
UR20-FBC-EC UR20-FBC-PN-IRT-V2	3 59294	2	2016-08-08
	4 59294	2	2016-08-08
	3 61002	2	2018-01-30
	4 61002	2	2018-01-30
	3 62639	3	2017-09-05
	4 62639	3	2017-09-05
UR20-FBC-MOD-TCP	3 60805	1	2018-01-18
	4 60805	1	2018-01-18
	3 62615	0	2015-08-28
	4 62615	0	2015-08-28
	3 55802	6	2014-11-12
	4 55802	6	2014-11-12



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UR20-FBC-PB-DP	3 60806	2	2018-01-18
	4 60806	2	2018-01-18
	3 55836	3	2017-06-19
	4 55836	3	2017-06-19
	3 62639	3	2017-09-05
	4 62639	3	2017-09-05
UR20-FBC-PN-IRT	3 60998	1	2017-01-16
	4 60998	1	2017-01-16
	3 55805	2	2017-02-14
	4 55805	2	2017-02-14
	3 62639	3	2017-09-05
	4 62639	3	2017-09-05
UR20-PF-I	3 55850	2	2012-06-13
	4 55850	2	2012-06-13
UR20-PF-O-1DI-SIL	3 55827	D	2013-08-15
	55827	D	2013-08-15
UR20-PF-O-2DI-DELAY-SIL	3 55828	D	2013-08-15
	55828	D	2013-08-15
UR20-PF-O-2DI-SIL	3 55829	D	2013-08-15
	55829	D	2013-08-15
UR20-PF-O	3 60735	0	2014-10-24
	4 60735	0	2014-10-24
UR20-1COM-232-485-422 UR20-1SSI-BTL	3 60787	2	2016-03-01
	4 60787	2	2016-03-01
UR20-1SSI	3 60804	0	2015-02-24
	4 60804	0	2015-02-24
UR20-4DI-2W-230V-AC	3 60077	1	2016-02-24
	4 60077	1	2016-02-24
	4 60076	3	2015-10-19
UR20-8AI-I-16-DIAG-HD UR20-8AI-I-16-HD	3 60781	0	2014-09-29
	4 60781	0	2014-09-29
UR20-16DO-N	3 60800	1	2015-10-29
	4 60800	1	2015-10-29
UR20-4DI-N	3 60754	0	2015-03-18
	4 60754	0	2015-03-18
UR20-8DO-P-2W-HD	3 60813	0	2014-11-05
	4 60813	0	2014-11-05
UR20-16DI-N	3 60728	0	2015-03-23
	4 60728	0	2015-03-23
UR20-1CNT-500	3 60738	0	2015-02-24
	4 60738	0	2015-02-24
UR20-4DO-N	3 60798	1	2015-02-26
	4 60798	1	2015-02-26
UR20-4DO-N-2A	3 60764	1	2015-02-26
	4 60764	1	2015-02-26



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UR20-8DI-N-3W	3 60733	2	2017-06-26
	4 60733	2	2017-06-26
UR20-8DO-N	3 60792	1	2015-03-24
	4 60792	1	2015-03-24
UR20-4DI-4DO-PN-FSPS UR20-4DI-4DO-PN-FSPS-V2UR20-4DI-4DO-PN-FSOE UR20-4DI-4DO-PN-FSOE-V2	3 60749	3	2015-07-08
	4 60749	3	2015-07-08
UR20-8DI-PN-FSPS UR20-8DI-PN-FSPS-V2UR20-8DI-PN-FSOE UR20-8DI-PN-FSOE-V2	3 60746	3	2015-07-08
	4 60746	3	2015-07-08
UR20-4AO-UI-16-DIAG-HD UR20-4AO-UI-16-HD	3 60797	1	2014-11-20
	4 60797	1	2014-11-20
UR20-1COM-SAI-PRO	3 61247	1	2015-09-15
	4 61247	1	2015-09-15
UR20-4AI-R-HS-16-DIAG	3 62139	2	2019-12-04
	4 62139	2	2019-12-04
UR20-16DO-N-PLC-INT	3 60799	2	2016-08-25
	4 60799	2	2016-08-25
UR20-16DI-N-PLC-INT	3 60761	2	2016-09-20
	4 60761	2	2016-09-20
UR20-4COM-IO-LINK	3 60715	0	2017-02-28
	4 60715	0	2017-02-28
UR20-4AO-UI-16-M UR20-4AO-UI-16-M-DIAG	3 62650	0	2017-01-20
	4 62650	0	2017-01-20
UR20-4AI-UI-DIF-16-DIAG UR20-4AI-UI-DIF-32-DIAG	3 61244	2	2017-02-24
	4 61244	2	2017-02-24
UR20-2AI-SG-24-DIAG	3 61240	2	2017-02-07
	4 61240	2	2017-02-07
UR20-FBC-CAN	3 61002	1	2016-06-08
	4 61002	1	2016-06-08
	3 55837	2	2016-12-02
	4 55837	2	2016-12-02
	3 62639	2	2016-12-01
	4 62639	2	2016-12-01
UR20-FBC-DN	3 61003	3	2018-01-30
	4 61003	3	2018-01-30
	3 61237	1	2018-01-23
	4 61237	1	2018-01-23
	3 62639	3	2017-09-05
	4 62639	3	2017-09-05
UR20-FBC-PL	3 61252	2	2016-08-08
	4 61252	2	2016-08-08
	3 62639	2	2016-12-01
	4 62639	2	2016-12-01
	3 62640	1	2016-06-08
	4 62640	1	2016-06-08



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UR20-FBC-MOD-TCP-V2 UR20-FBC-EIP	3 59294	2	2016-08-08
	4 59294	2	2016-08-08
	3 62639	3	2017-09-05
	4 62639	3	2017-09-05
	3 62640	2	2018-01-30
	4 62640	2	2018-01-30
UR20-8AI-RTD-DIAG-2W	3 66260	0	2018-02-19
	4 66260	0	2018-02-19
UR20-8DIO-P-3W-DIAG	3 62647	0	2018-04-04
	4 62647	0	2018-04-04
UR20-1SM-50W-6DI2DO-P	3 65097	4	2018-06-14
	3 65098	2	2018-03-14
	4 65097	4	2018-06-14
	4 65098	3	2018-04-25
UR20-FBC-CC	3 62639	3	2017-09-05
	4 62639	3	2017-09-05
	3 65135	0	2019-04-11
	4 65135	0	2019-04-11
	3 66975	1	2018-07-04
	4 66975	1	2018-07-04
UR20-FBC-PB-DP-V2	3 62610	1	2018-07-04
	4 62610	1	2018-07-04
	3 62639	3	2017-09-05
	4 62639	3	2017-09-05
	3 66975	1	2018-07-04
	4 66975	1	2018-07-04
UR20-8DI-ISO-2W	3 62641	00	2016-01-08
	4 62641	00	2016-01-08
UR20-4AI-I-HART-16-DIAG	3 68005	2	2018-09-12
	4 68005	2	2018-09-12
UR20-4AI-UI-ISO-16-DIAG	3 67904	0	2019-05-28
	4 67904	0	2019-05-28
UR20-1COM-CANOPEN	3 66220	0	2019-07-16
	4 66220	0	2019-07-16
UR20-FBC-CC-TSN	68911, Sheets 4-7	0	2020-01-09
	68911, Sheets 8-9	0	2020-01-09
	69978, Sheets 4-16	1	2020-03-13
	69978, Sheets 17-18	1	2020-03-13
UR20-2AO-UI-ISO-16-DIAG	69732, Sheets 4-8	0	2020-07-07
	69732, Sheets 9-10	0	2020-07-07
UR20-4DO-ISO-4A	62638, Sheets 4-7	8	2020-11-10
	62638, Sheets 8-9	8	2020-11-10
u-remote UR20 Quick reference Fieldbus coupler	1484670000	12	2021-11
Manual	1432790000	25	2021-11
UR20-4RO-CO-255 (label for models with relay)	54993	9	2021-12-03
UR20-8DI-P-3W (label for models without relay)	54140	10	2021-12-03



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PCB specification for UR20-4RO-255	4 56105	5	2015-10-19
PCB specification for UR20-4RO-SSR-255	4 58736	1	2015-10-19
Relay documentation for UR20-4RO-255	4 62642	0	2016-01-14
FBC Fieldbus Coupler Blatt	3 54125	05	2014-09-22
FBC Locking Foot	3 54126	03	2015-07-14
FBC and IO Mounting Rail Contact (earth)	2 54111	04	2015-06-29
FBC Housing Shell	2 54258	03	2015-06-25
FBC Supportblock	3 54257	05	2015-07-14
FBC Supportblock Housing Upper Part	2 54255	05	2015-06-25
FBC Catch Lever	4 54108	05	2015-06-25
FBC Supportblock Modulbus	4 54107	02	2014-10-28
FBC and IO Supportblock Power Contact	2 54112	04	2014-04-25
FBC Non-Usable Area of PCB Fieldbus	2 54254	02	2015-06-02
FBC Non-Usable Area of PCB Control	3 54253	01	2013-09-19
FBC Non-Usable Area of PCB Powerfeed	2 54256	03	2013-09-19
FBC Fiber-Optic Rod	3 55053	01	2012-08-20
FBC Housing Upper Part	1 54259	06	2015-06-18
FBC Cover	4 55052	02	2015-06-25
FBC Connector Frame	2 54185	06	2015-06-24
FBC Plug / Protection Cap	3 54156	05	2015-10-20
FBC and IO Plug	3 54203	06	2016-01-05
FBC and IO Fiber-Optic Rod	4 55060	01	2012-06-05
FBC Plug Kit	3 54155	07	2015-11-16
IO Module Blatt	3 54207	04	2014-09-01
IO Module Blatt	3 54209	02	2015-06-18
IO Module Blatt	3 54211	05	2014-08-28
IO Base Module	2 54117	05	2015-06-17
IO Base Module Housing Upper Part	1 54115	07	2015-06-25
IO Base Module Modulbus	4 54107	02	2014-10-28
IO Base Module Modulbus Housing	2 54106	05	2014-10-14
IO Base Module Modulbuscontact	2 54105	04	2015-04-10
IO Base Module Modulbuscontact	2 54104	04	2015-04-10
IO Base Module Coding Element	4 54114	01	2012-06-05
IO Base Module Locking Foot	3 54109	06	2012-11-23
IO Base Module Locking Foot	4 54110	04	2012-11-23
IO Base Module Coding Socket	3 48193	06	2009-10-01
IO Base Module Coding Element	3 48194	05	2013-10-06
IO EM PCBA	4 54496	2	2012-06-27
IO EM Electronic Module	4 55810	1	2013-12-13
IO EM Electronic Module	4 55812	4	2012-07-30
IO EM Housing	2 54123	07	2015-06-25
IO EM Housing	2 54124	07	2015-11-03
IO EM Removal Lever	3 54121	05	2015-06-25
IO EM Non-Usable Area of PCB	2 54154	03	2013-09-19



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IO EM Non-Usable Area of PCB	2 54197	04	2013-09-19
IO PK Plug Kit	3 55071	09	2016-01-05
IO PK Plug Kit	4 55092	05	2015-08-06
IO PK Connector Frame	2 54185	06	2015-06-24
IO PK Plug	4 54206	01	2015-07-13
IO PK Housing Insert	4 54186	02	2012-06-06
IO PK Slider	2 54195	03	2015-04-08
IO PK Housing Lower Part	3 54201	01	2012-06-06
IO PK Housing Upper Part	2 54200	05	2015-06-24
IO PK Spring Connection	3 54194	04	2015-03-30
IO PK Housing Lower Part	3 54199	04	2015-04-20
IO PK Housing Upper Part	3 54202	02	2015-06-24
IO PK Plug	4 54120	04	2016-01-20
IO PK Housing Lower Part	2 54248	04	2015-06-24
IO PK Housing Lower Part	2 54245	07	2015-11-10
IO PK Contact Bar	2 54119	05	2015-09-21
IO PK Contact Bar	2 54118	05	2015-09-21
IO PK Housing Upper Part	3 54247	04	2015-06-24
IO PK Housing Upper Park	2 54246	02	2014-03-12
IO Accessory Swivel Marker	3 54239	03	2016-01-20
IO EB Accessory End Bracket	4 54196	03	2013-08-06
IO EB Endbracket	3 54237	05	2015-07-14
IO EB Housing	2 54238	07	2015-06-25
IO EB Fixing Plate	2 07245	16	2015-02-12
IO EB Clamping Screw	3 02813	09	2012-11-14
IO EB Cover Plate	3 55055	05	2015-06-25
Structure FieldBus Coupler D-Sub	3 62320	00	2016-03-23
Structure FieldBus Coupler RJ-45	3 62322	01	2016-03-23
Structure IO-Module PG1.5	3 62323	00	2016-03-23
Structure IO-Module PLC	3 62324	00	2016-03-23
Structure IO-Module HD	3 62325	00	2016-03-23

