

**Lucy Frieders** 

### INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx ULD 15.0013X** Page 1 of 4

Issue No: 14 Status: Current

2025-04-16 Date of Issue:

Weidmüller Interface GmbH & Co. KG Applicant:

Klingenbergstrasse 26 Detmold 32758 Germany

Equipment: Interface modules, Open Type Programmable Controllers

- Series UR20 u-remote.

Optional accessory:

Increased Safety "ec", Sealed Device "nC" Type of Protection:

Marking: Ex ec nC IIC T4 Gc (model UR20-4RO-CO-255 only)

Ex ec IIC T4 Gc (all other models)

-20 °C to +60 °C

Approved for issue on behalf of the IECEx

Certification Body:

Position: Staff Engineer

Signature:

(for printed version)

2025-04-16 (for printed version)

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Certificate history: Issue 13 (2024-12-10)

Issue 12 (2024-05-24) Issue 11 (2023-11-21)

Issue 10 (2023-03-09) Issue 9 (2021-11-22)

Issue 8 (2021-06-14)

Issue 7 (2021-01-08)

Issue 6 (2020-07-08)

Issue 5 (2019-12-19) Issue 4 (2019-08-20)

Certificate issued by:

**UL Solutions (Demko) Borupvang 5A** Ballerup DK-2750 **Denmark** 





Certificate No.: IECEx ULD 15.0013X Page 2 of 4

Date of issue: 2025-04-16 Issue No: 14

Manufacturer: Weidmüller Interface GmbH & Co. KG

Klingenbergstrasse 26 Detmold 32758 **Germany** 

Manufacturing Weidmüller Interface GmbH & Co.

locations: K

Klingenbergstrasse 26 Detmold 32758 **Germany** 

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

### **STANDARDS**:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

Edition:5.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

### **TEST & ASSESSMENT REPORTS:**

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

### Test Reports:

DK/ULD/ExTR15.0014/00	DK/ULD/ExTR15.0014/01	DK/ULD/ExTR15.0014/02
DK/ULD/ExTR15.0014/03	DK/ULD/ExTR15.0014/04	DK/ULD/ExTR15.0014/05
DK/ULD/ExTR15.0014/06	DK/ULD/ExTR15.0014/07	DK/ULD/ExTR15.0014/08
DK/ULD/ExTR15.0014/09	DK/ULD/ExTR15.0014/10	DK/ULD/ExTR15.0014/11
DK/ULD/ExTR15.0014/12	DK/ULD/ExTR15.0014/13	DK/ULD/ExTR15.0014/14

### **Quality Assessment Report:**

NL/DEK/QAR12.0052/10



Certificate No.: IECEx ULD 15.0013X Page 3 of 4

Date of issue: 2025-04-16 Issue No: 14

### **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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.

Please see Annex for specific models and additional information.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 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 IEC 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.



Certificate No.: IECEx ULD 15.0013X Page 4 of 4

Date of issue: 2025-04-16 Issue No: 14

### **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: Added models and updated modules.

Issue 2: The following models were added to the certificate: UR20-4Al-R-HS-16-DIAG, UR20-16DO-N-PLC-INT, UR20-16DI-N-PLC-INT, UR20-FBC-PL, UR20-FBC-MOD-TCP-V2. Revisions to printed wiring boards.

Issue 3: Added new models and updated some existing models.

Issue 4: The following models were added: UR20-1SSI-BTL, UR20-8AI-RTD-DIAG-2W, UR20-8DIO-P-3W-DIAG and UR20-1SM-50W-6DI2DO-P.

The following models were updated: UR20-FBC-PN-IRT, UR20-FBC-DN, UR20-FBC-EIP, UR20-8DO-P and UR20-FBC-EC, UR20-4AI-UI-16, UR20-4AI-UI-12 and UR20-4AI-UI-16-DIAG, UR20-FBC-MOD-TCP and UR20-FBC-MOD-TCP-V2, UR20-4DO-P-2A, UR20-16DI-P, UR20-16DO-P, UR20-1COM-232-485-422, UR20-FBC-PB-DP, UR20-4DO-P-2A, UR20-8DI-P-3W, UR20-8DI-P-3W, UR20-8DI-P-3W, UR20-4AI-RTD-DIAG, UR20-4AI-RTD-HP-DIAG and UR20-4AI-TC-DIAG.

Issue 5: The following models were added: UR20-FBC-PB-DP-V2, UR20-FBC-CC, UR20-8DI-ISO-2W. The following models were updated: UR20-8DO-P, UR20-16DO-P.

Issue 6: The following models were added to the certificate: UR20-4AI-I-HART-16-DIAG, UR20-4AI-UI-ISO-16-DIAG, UR20-1COM-CANOPEN and the construction of the following module was modified: UR20-4AI-R-HS-16-DIAG.

Issue 7: Addition of model UR20-FBC-CC-TSN.

Issue 8: The construction of models UR20-4AO-UI-16 and UR20-4AO-UI-16-DIAG was modified. Models UR20-2AO-UI-16-DIAG, UR20-2AO-UI-16, UR20-2AO-UI-16-DIAG, UR20-4DO-ISO-4A, UR20-2AI-UI-16, UR20-2AI-UI-16-DIAG were added.

Issue 9: Changed the protection type from "nA" according to IEC 60079-15, Ed. 4 to "ec" according to IEC 60079-7, Ed. 5.1. Upgraded to the newest editions of all standards. Updated the marking drawings reflecting the new protection method "ec".

Issue 10: The construction of models UR20-4DO-P-2A, UR20-8DO-P, UR20-16DO-P, UR20-2PWM-PN-2A, UR20-2PWM-PN-0.5A, UR20-PF-O, UR20-PF-I, UR20-FBC-EC, UR20-FBC-PN-IRT-V2 was modified. Models UR20-1COM-232-485-422-V2, UR20-2PWM-I-2.5A-2DI-P were added.

Issue 11: Model UR20-AUX-VSYS was added to the certificate. An alternate construction of Model UR20-4AO-UI-16-DIAG was introduced. Update of Technical Documents.

Issue 12: Alternative constructions of models UR20-8DO-P, UR20-16DO-P and UR20-16DO-N were introduced and tested and related Technical Documents were updated.

Issue 13: Added 2 new models UR20-8DI-PN-FSCC and UR20-4DI-4DO-PN-FSCC, added alternate construction of models UR20-8DI-PN-FSOE-V2, UR20-8DI-PN-FSPS-V2, UR20-4DI-4DO-PN-FSOE-V2 and UR20-4DI-4DO-PN-FSPS-V2. The model UR20-8DI-PN-FSCC is representative of models UR20-8DI-PN-FSOE-V2, UR20-8DI-PN-FSPS-V2. The model UR20-4DI-4DO-PN-FSCC is representative of models UR20-4DI-4DO-PN-FSOE-V2, UR20-4DI-4DO-PN-FSPS-V2.

Issue 14: Added models UR20-1COM-CAN and UR20-4AI-I-HART-ISO 16. Model UR20-1COM-CAN is represented by model UR20-1COM-CANOPEN that was already certified.

### Annex:

Annex to IECEx ULD 15.0013X Issue 14.pdf



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 1 of 13

### TYPE DESIGNATION

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-P, 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, UR20-1COM-232-485-422-V2, UR20-1SSI, UR20-4DI-2W-230V-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-PB-DP-V2, UR20-FBC-CC, UR20-8DI-ISO-2W, UR20-4AI-I-HART-16-DIAG, UR20-4AI-UI-ISO-16-DIAG, UR20-1COM-CAN, 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, UR20-2PWM-I-2.5A-2DI-P, UR20-AUX-VSYS, UR20-4AI-I-HART-ISO-16, UR20-8DI-PN-FSCC, UR20-4DI-4DO-PN-FSCC may be followed by additional characters.

### PARAMETERS RELATING TO THE SAFETY

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



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 2 of 13

Model	Туре	Main Input	Auxiliary Input / Output
UR20-FBC-EC	Bus Coupler	Input voltage I port:	Output voltage system bus:
URZU-FBC-EC	EtherCat	DC 24V	5Vdc +/-2%
		Input current at I port at full load: <=10A	Output current at system bus at full load: 2.56A
		Input voltage O port: DC 24V	Output / input current at O / I Port at full load:
		Input current at O port at full load: <=10A	24Vdc, 10A at 55°C, 8A at 60°C
UR20-FBC- MOD-TCP	Bus Coupler ModBus TCP	Input voltage I port: DC 24V	Output voltage system bus: 5Vdc +/-2%
		Input current at I port at full load: <=10A	Output current at system bus at full load: 2.56A
		Input voltage O port: DC 24V	Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
		Input current at O port at full load: <=10A	
UR20-FBC-PB- DP	Bus Coupler Profibus DP	Input voltage I port: DC 24V	Output voltage system bus: 5Vdc +/-2%
		Input current at I port at full load: <=10A	Output current at system bus at full load: 2.56A
		Input voltage O port: DC 24V	Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
		Input current at O port at full load: <=10A	



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 3 of 13

Madal	Turno	Main Innut	Auxiliant Input / Output
Model	Type	Main Input	Auxiliary Input / Output
UR20-FBC-EIP	Bus Coupler Ethernet IP	Input voltage I port: DC 24V	Output voltage system bus: 5Vdc +/-2%
		Input current at I port at full load: <=10A	Output current at system bus at full load: 2.56A
		Input voltage O port: DC 24V	Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
		Input current at O port at full load: <=10A	
UR20-FBC- CAN	Bus Coupler CANopen	Input voltage I port: DC 24V	Output voltage system bus: 5Vdc +/-2%
UR20-FBC-DN		Input current at I port at full load: <=10A	Output current at system bus at full load: 2.56A
		Input voltage O port: DC 24V	Output / input current at O / I Port at full load: 10A at 60°C
		Input current at O port at full load: <=10A	
UR20-FBC-PL	Bus Coupler Powerlink	Input voltage I port: DC 24V	Output voltage system bus: 5Vdc +/-2%
		Input current at I port at full load: <=10A	Output current at system bus at full load:
		Input voltage O port: DC 24V	2.56A
		Input current at O port at full load: <=10A	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/TCP	Input voltage I port: DC 24V	Output voltage system bus: 5Vdc +/-2%
		Input current at I port at full load: <=10A	Output current at system bus at full load:
		Input voltage O port: DC 24V	2.56A
		Input current at O port at full load: <=10A	Output / input current at O / I Port at full load: 8A at 60°C, horizontal mounting, 6A at 55°C, vertical mounting



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 4 of 13

Model	Туре	Main Input	Auxiliary Input / Output
UR20-4DI-P UR20-2DI-P-TS UR20-4DI-P-TS	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
UR20-4DI-N	40 D: '/ I		
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: 24Vdc, 1A maximum per pole, unfused
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:
UR20-8DO-P UR20-8DO-P- 2W-HD	8 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current: 24Vdc, 0.5A resistive, pilot duty or tungsten maximum per output
UR20-8DO-N 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, pilot duty 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): auxiliary supply: 24Vdc, 1A maximum per pole, unfused



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 5 of 13

Model	Туре	Main Input	Auxiliary Input / Output
UR20-4RO-	4 Relay	rated voltage: 24V DC from	rated voltage: 250Vac
CO-255	Outputs	internal O bus	rated current: 2.4A per channel at
			60°C and 3A per channel at 55°C
UR20-4AI-UI-	4 or 8 Analog	rated voltage: 24V DC from	type of input:
16	Inputs	internal I bus	analog +/-10V, +/-5V, 010V,
			05V, 210V, 15V, 020mA or
UR20-4AI-UI-			420mA
12			aanaar aynnhu
UR20-4AI-UI-			sensor supply: 24Vdc 2A maximum per sensor,
16-HD			unfused,
-			0.5A for HD version, fused
UR20-8AI-I-16-			
DIAG-HD			
UR20-8AI-I-16-			
HD			
UR20-8AI-I-	8 Analog Inputs	rated voltage: 24V DC from	type of input:
PLC-INT		the 4 pole terminal block of	analog 020mA or 420mA
		the module	
			sensor supply: 24Vdc, 1A maximum, fused
UR20-4AO-UI-	4 Analog	rated voltage:	type of output:
16	Outputs	24V DC from internal O bus	analog +/-10V, +/-5V, 010V,
			05V, 210V, 15V, 020mA or
UR20-4AO-UI-			420mA
16-DIAG			
UR20-4AO-UI-			
16-DIAG-HD			
UR20-4AO-UI-			
16-HD UR20-2AO-UI-	2 Analog	roted voltage: 24\/ DC from	type of cutput: analog 1/10V/1/
16	Outputs	rated voltage: 24V DC from internal O bus	type of output: analog +/-10V, +/-5V, 010V, 05V, 210V, 15V,
10	Catpato		020mA or 420mA
UR20-2AO-UI-			
16-DIAG	<u> </u>		
UR20-4AI-UI-	4 Analog Inputs	rated voltage:	type of input:
16-DIAG		24V DC from internal I bus	analog +/-10V, +/-5V, 010V, 05V, 210V, 15V, 020mA or
UR20-4AI-UI-			420mA
16-DIAG-HD			
			sensor supply: 24Vdc, 0.5A fused
UR20-2AI-UI-	2 Analog Inputs	rated voltage: 24V DC from	type of input: analog +/-10V, +/-5V,
16		internal I bus	010V, 05V, 210V, 15V,
UR20-2AI-UI-			020mA or 420mA
16-DIAG			sensor supply: 2A maximum per
			sensor, unfused.



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 6 of 13

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Model	Туре	Main Input	Auxiliary Input / Output
UR20-4AI-	4 or 8 Analog	rated voltage:	type of input:
RTD-DIAG	Inputs	24V DC from internal I bus	analog
UR20-4AI-	Resistive		Pt100, Pt200, Pt500, Pt1000,
RTD-HP-DIAG	Temperature		Ni100, Ni120, Ni 200, Ni500,
UR20-8AI-	Detection		Ni1000, Cu10, 40 Ω, 80 Ω, 150 Ω,
RTD-DIAG-2W			300 Ω, 500 Ω, 1 kΩ, 2 kΩ, 4 kΩ
UR20-4AI-TC-	4 Analog Inputs	rated voltage: 24V DC from	type of input:
DIAG	Thermocouple	internal I bus	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	rated voltage:	rated voltage: 24V DC
01120111	Input	24V DC from 4 pole terminal	rated vellage. 217 BC
	Input	block	rated current: 10A
UR20-PF-O	Power Feed	rated voltage:	rated voltage: 24V DC
01\20-11-0	Output	24V DC from the 4 pole	Taled Vollage. 24V DC
	Output	terminal block	rated current: 10A
UR20-16AUX-	Potential	rated voltage:	0V / GND
GND-I	Distribution	24V DC from internal I bus	rated current: 10A
	Module for		
UR20-16AUX-I	Input Current		
	Path		
UR20-ES			
UR20-16AUX-	Potential	rated voltage:	0V / GND
GND-O	Distribution	24V DC from internal O bus	rated current: 10A
	Module for		
UR20-16AUX-	Output Current		
0	Path		
UR20-16AUX-			
FE			
UR20-8DI-P-	8 Digital Inputs	rated voltage:	rated voltage: 24V DC
3W		24V DC from internal I bus	
UR20-8DI-P-			sensor supply:
2W			24Vdc, 2A maximum per sensor
			unfused,
UR20-8DI-P-			HD version FWT 1 to 4: 0.5A
3W-HD			maximum total current, FWT 5 to
			8: 0.5A maximum total current
UR20-8DI-N-			
3W			
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Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 7 of 13

Model   Type		1		1
UR20-2CNT- 100 UR20-2CWM- PN-0.5A UR20-2PWM- PN-2A  UR20-3PWM- PN-2A  UR20-4DO-PN- 2A  UR20-4DO-PN- 2B  UR20-4DO-PN- 2B  UR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL	Model	Туре	Main Input	Auxiliary Input / Output
UR20-2CNT- 100  UR20-2PWM- PN-0.5A  UR20-2PWM- PN-0.5A  UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-4DO-PN- 2A  UR20-4DO-PN- 2B- UR20-PF-O- 2DI-SIL  UR20-PF				rated voltage: 24V DC
UR20-2CNT- 100  UR20-2PWM- PN-0.5A  UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-3PWM- PN-2A  UR20-3PWM- PN-2A  UR20-4DO-PN- 2A  UR20-PN- 2B  UR20-PN- 2B  UR20-PF-O- 1DI-SIL  UR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-	100		internal I bus	
ICNT100-1DO UR20-2CNT- 100 UR20-2PWM- PN-0.5A UR20-2PWM- PN-0.5A UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-2PWM- PN-2A  UR20-4DO-PN- 2A  UR20-4DO-PN- 2B  UR20		output		•
UR20-2PWM-PN-0.5A UR20-2PWM-PN-0.5A UR20-2PWM-PN-0.5A UR20-2PWM-PN-2A  UR20-2PWM-PN-2A  UR20-2PWM-PN-2A  UR20-2PWM-PN-2A  UR20-2PWM-PN-2A  UR20-4DO-PN-2A  UR2				0.5A resistive maximum per output
UR20-2PWM-PN-0.5A UR20-2PWM-PN-2A  UR20-2PWM-PN-2A  UR20-2PWM-PN-2A  UR20-2PWM-PN-2A  UR20-2PWM-PN-2A  UR20-4DO-PN-2A  UR20-4D	1CNT100-1DO			
UR20-4DO-PN- 2A   UR20-4DO-PN- 2A   UR20-4PO-PN- 2B   UR20-4PO-P				sensor supply:
UR20-2PWM-PN-0.5A	UR20-2CNT-			24Vdc, 2A maximum per sensor
PN-0.5A UR20-2PWM-PN-2A output Internal O bus output current: 0.5(forPN-0.5A models)  UR20-2PWM-PN-2A output 2A (forPN-0.5A models)  UR20-4DO-PN-2A Outputs 2A Doubts 2A (forPN-0.5A models)  UR20-4DO-PN-2A Outputs 2A Doubts 2A (forPN-0.5A models)  UR20-4DO-PN-2A Outputs 2A maximum per sensor unfused output current: 2A resistive or tungsten maximum per output sensor supply: 24Vdc 2A maximum per output sensor supply: 24Vdc 2A maximum per output output current: 2A resistive or tungsten maximum per output total current per module: 10A maximum  UR20-4RO-SSR-255 4 Solid State Relay Outputs 250Vac SSR rated voltage: 250Vac SSR rated voltage: 250Vac SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC rated current: OSSD: 8A resistive SSI: 0.5A resistive SSI: 0.5A resistive	100			unfused
UR20-2PWM-PN-2A  UR20-2PWM-PN-2A  UR20-4DO-PN-2A  UR20-4DO-PN-2A  UR20-4DO-PN-2A  UR20-4DO-PN-2A  UR20-4DO-PN-2A  UR20-4DO-PN-2A  UR20-4DO-PN-2A  UR20-4BO-PN-2A  UR20-4BO-PN-	UR20-2PWM-	Pulse Width		rated voltage: 24V DC
UR20-4PO-PN-2A  UR20-4PO-PN-2B	PN-0.5A	Controller with	internal O bus	
PN-2A  2A (forPN-2A models) resistive maximum per output  sensor supply: 24Vdc, 2A maximum per sensor unfused  UR20-4DO-PN-2A  Outputs  Outputs  A Digital Outputs  Output current: 2A resistive or tungsten maximum per output  sensor supply: 24Vdc 2A maximum per sensor, unfused  total current per module: 10A maximum  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-SIL  UR20-PF-O-5		0.5A or 2A		output current:
PN-2A  2A (forPN-2A models) resistive maximum per output  sensor supply: 24Vdc, 2A maximum per sensor unfused  UR20-4DO-PN-2A  Outputs  Outputs  A Digital Outputs  Output current: 2A resistive or tungsten maximum per output  sensor supply: 24Vdc 2A maximum per sensor, unfused  total current per module: 10A maximum  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-SIL  UR20-PF-O-5	UR20-2PWM-	output		0.5(forPN-0.5A models)
UR20-4DO-PN- 2A Digital Outputs	PN-2A			
UR20-4DO-PN- 2A  UR20-4BO- SSR-255  UR20-PF-O- 1DI-SIL  UR20-PF-O- 2DI-SIL  Sensor supply: 24V DC from internal O bus  rated voltage: 24V DC  output current: 2A resistive or tungsten maximum per output  sensor supply: 24V dc 2A maximum per sensor, unfused  total current per module: 10A maximum  Rated voltage: 24V DC  SSR rated current: 1A resistive maximum per channel, unfused  rated voltage: 24V DC  SSD: 8A resistive SSI: 0.5A resistive				2A (forPN-2A models) resistive
UR20-4DO-PN- 2A  UR20-4BO- SSR-255  UR20-PF-O- 1DI-SIL  UR20-PF-O- 2DI-SIL  Sensor supply: 24V DC from internal O bus  rated voltage: 24V DC  output current: 2A resistive or tungsten maximum per output  sensor supply: 24V dc 2A maximum per sensor, unfused  total current per module: 10A maximum  Rated voltage: 24V DC  SSR rated current: 1A resistive maximum per channel, unfused  rated voltage: 24V DC  SSD: 8A resistive SSI: 0.5A resistive				maximum per output
UR20-4PO-PN- 2A  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  Rated voltage: 24V DC  SSR-255  VR20-4RO- SSR-255  UR20-PF-O- 1DI-SIL  UR20-PF-O- 2DI-SIL  VR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL  VR20-PF-O- 2DI-SIL  VR20				
UR20-4PO-PN- 2A  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  Rated voltage: 24V DC  SSR-255  VR20-4RO- SSR-255  UR20-PF-O- 1DI-SIL  UR20-PF-O- 2DI-SIL  VR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL  VR20-PF-O- 2DI-SIL  VR20				sensor supply:
UR20-4DO-PN- 2A  4 Digital Outputs  Outputs  A Digital Outputs  Outputs  A Digital Outputs  Frated voltage: 24V DC from internal O bus  Output current: 2A resistive or tungsten maximum per output  Sensor supply: 24Vdc 2A maximum per sensor, unfused  total current per module: 10A maximum  Rated voltage: 24V DC  SSR-255  Relay Outputs  SSR rated voltage: 250Vac  SSR rated current: 1A resistive maximum per channel, unfused  UR20-PF-O- 1DI-SIL  UR20-PF-O- 2DI-SIL  U				24Vdc, 2A maximum per sensor
Outputs internal O bus output current: 2A resistive or tungsten maximum per output sensor supply: 24Vdc 2A maximum per sensor, unfused total current per module: 10A maximum Rated voltage: 24V DC SSR-255 SSR-255 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- SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC rated voltage: 24V DC SSD: 8A resistive SSI: 0.5A resistive				
Output current: 2A resistive or tungsten maximum per output  sensor supply: 24Vdc 2A maximum per sensor, unfused  total current per module: 10A maximum  Rated voltage: 24V DC  SSR-255  4 Solid State Relay Outputs  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-SIL  UR20-PF-O- UR20-PF-O- 2DI-SIL  VR20-PF-O- 2DI-SIL	UR20-4DO-PN-	4 Digital	rated voltage: 24V DC from	rated voltage: 24V DC
UR20-PF-O- UR20-PF-O- 2DI-SIL  2A resistive or tungsten maximum per output  sensor supply: 24Vdc 2A maximum per sensor, unfused  total current per module: 10A maximum  Rated voltage: 24V DC  SSR rated voltage: 250Vac  SSR rated current: 1A resistive maximum per channel, unfused  rated voltage: 24V DC from the 4 pole terminal block of the module  VR20-PF-O- 2DI-SIL  UR20-PF-O- UR20-PF-O- 2DI-SIL  UR20-PF-O- UR20-PF-O- 2DI-SIL  UR20-PF-O-	2A	Outputs	internal O bus	
DR20-4RO-SSR-255  UR20-4FO-1DI-SIL  UR20-PF-O-2DI-SIL  UR20-PF-O-2DI-SIL  UR20-PF-O-1  UR20-PF-O-21 Power Feed Output  Description of the module sensor supply: 24V dc 2A maximum per sensor, unfused total current per module: 10A maximum  Rated voltage: 24V DC  SSR rated voltage: 250Vac  SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC  rated voltage: 24V DC  rated voltage: 24V DC  rated current: OSSD: 8A resistive  SSI: 0.5A resistive				output current:
DR20-4RO-SSR-255  UR20-4FO-1DI-SIL  UR20-PF-O-2DI-SIL  UR20-PF-O-2DI-SIL  UR20-PF-O-1  UR20-PF-O-21 Power Feed Output  Description of the module sensor supply: 24V dc 2A maximum per sensor, unfused total current per module: 10A maximum  Rated voltage: 24V DC  SSR rated voltage: 250Vac  SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC  rated voltage: 24V DC  rated voltage: 24V DC  rated current: OSSD: 8A resistive  SSI: 0.5A resistive				
UR20-4RO- SSR-255  4 Solid State Relay Outputs  Rated voltage: 24V DC SSR rated current: 1A resistive maximum per channel, unfused  UR20-PF-O- 1DI-SIL  UR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL  UR20-PF-O-  UR20-PF-O- 2DI-SIL  UR20-PF-O-  UR20-PF-O- 2DI-SIL  UR20-PF-O-				
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-SIL  UR20-PF-O- UR20-PF-O- 2DI-SIL  24V DC from the 4 pole terminal block of the module  UR20-PF-O- 2DI-SIL  UR20-PF-O- UR20-PF-O- 2DI-SIL  UR20-PF-O-				
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-SIL  UR20-PF-O- UR20-PF-O- 2DI-SIL  24V DC from the 4 pole terminal block of the module  UR20-PF-O- 2DI-SIL  UR20-PF-O- UR20-PF-O- 2DI-SIL  UR20-PF-O-				sensor supply:
UR20-4RO-SSR-255  UR20-4RO-SSR-255  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-SIL  UR20-PF-O-				
UR20-4RO- SSR-255 Relay Outputs SSR rated voltage: 24V DC SSR rated voltage: 250Vac SSR rated current: 1A resistive maximum Rated voltage: 250Vac SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC 1DI-SIL Output Power Feed Output Output Output Output SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC rated voltage: 24V DC SSR rated current: 1A resistive maximum rated current: OSSD: 8A resistive SSI: 0.5A resistive				unfused
UR20-4RO- SSR-255 Relay Outputs SSR rated voltage: 24V DC SSR rated voltage: 250Vac SSR rated current: 1A resistive maximum Rated voltage: 250Vac SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC 1DI-SIL Output Power Feed Output Output Output Output SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC rated voltage: 24V DC SSR rated current: 1A resistive maximum rated current: OSSD: 8A resistive SSI: 0.5A resistive				
UR20-4RO- SSR-255 Relay Outputs SSR rated voltage: 24V DC SSR rated voltage: 250Vac SSR rated current: 1A resistive maximum Rated voltage: 250Vac SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC 1DI-SIL Output Power Feed Output Output Output Output SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC rated voltage: 24V DC SSR rated current: 1A resistive maximum rated current: OSSD: 8A resistive SSI: 0.5A resistive				total current per module: 10A
SSR-255  Relay Outputs  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-SIL  UR20-PF-O-  UR20-PF-O-  UR20-PF-O- 2DI-SIL  Relay Output  SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC  rated current: OSSD: 8A resistive SSI: 0.5A resistive				
SSR-255  Relay Outputs  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- UR20-PF-O- 2DI-SIL  Relay Output  SSR rated current: 1A resistive maximum per channel, unfused rated voltage: 24V DC  rated voltage: 24V DC  SSD: 8A resistive SSI: 0.5A resistive	UR20-4RO-	4 Solid State		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-SIL  SSR rated voltage: 24V DC from the 4 pole terminal block of the module  rated current: OSSD: 8A resistive SSI: 0.5A resistive	SSR-255	Relay Outputs		_
UR20-PF-O- 1DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O-		,		SSR rated voltage:
UR20-PF-O- 1DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL  IA resistive maximum per channel, unfused rated voltage: 24V DC rated voltage: 24V DC SSD: 8A resistive SSI: 0.5A resistive				
UR20-PF-O- 1DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL UR20-PF-O- 2DI-SIL  IA resistive maximum per channel, unfused rated voltage: 24V DC rated voltage: 24V DC SSD: 8A resistive SSI: 0.5A resistive				
UR20-PF-O- 1DI-SIL  UR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL  Channel, unfused rated voltage: 24V DC from the 4 pole terminal block of the module rated current: OSSD: 8A resistive SSI: 0.5A resistive				SSR rated current:
UR20-PF-O- 1DI-SIL  UR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL  UR20-PF-O- 2DI-SIL  Channel, unfused rated voltage: 24V DC from the 4 pole terminal block of the module rated current: OSSD: 8A resistive SSI: 0.5A resistive				1A resistive maximum per
UR20-PF-O- 1DI-SIL Output Power Feed Output 24V DC from the 4 pole terminal block of the module UR20-PF-O- 2DI-SIL UR20-PF-O- UR20-PF-O-				
1DI-SIL  Output  24V DC from the 4 pole terminal block of the module  VR20-PF-O- 2DI-SIL  UR20-PF-O-  UR20-PF-O-  UR20-PF-O-	UR20-PF-O-	Power Feed	rated voltage:	
UR20-PF-O- 2DI-SIL  terminal block of the module rated current: OSSD: 8A resistive SSI: 0.5A resistive		Output		
2DI-SIL SSI: 0.5A resistive UR20-PF-O-		·		rated current:
2DI-SIL SSI: 0.5A resistive UR20-PF-O-	UR20-PF-O-			OSSD: 8A resistive
				SSI: 0.5A resistive
2DI-DELAY-SIL	UR20-PF-O-			
	2DI-DELAY-SIL			



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 8 of 13

Model	Туре	Main Input	Auxiliary Input / Output
UR20-1COM-	1 Port Digital	rated voltage: 24 V DC from	Data interface signal:
232-485-422	Interface	internal I bus	232, 485 or 422
UR20-1COM-			Load sensor supply:
232-485-422-			0.4A (5V) or 0.5A (24V) /
V2			0.4A (5V) or 0.4A (24V)
UR20-1SSI- BTL			
UR20-1SSI	1 Port Inout	rated voltage: 24V DC from	1 RS422 Output
	Card for	internal <b>I</b> bus	2 RS422 Input
	Incremental		Load sensor supply:
	Encoder		0.4A (5V) or 0.5A (24V)
UR20-1CNT-	1 Port Counter	rated voltage: 24V DC from	3 RS422 Inputs
500	Inout Card for	internal I bus	Load sensor supply:
	Incremental Encoder		0.4A (5V) or 0.5A (24V)
UR20-4DI- 4DO-PN-FSPS	4 digital inputs and 4 digital	rated voltage: 24V DC from internal bus	Load output rail: 6.4A
UR20-4DI-	outputs		Load input rail: 10A
4DO-PN-FSPS- V2			Load bus rail: 2.56A
			Input Signal P-Mode:
UR20-4DI- 4DO-PN-FSOE			24V / N-Mode: 0V
1501111002			Load Sensor Supply:
UR20-4DI- 4DO-PN-			0.8A, each channel
FSOE-V2			Load Output signal:
			0.5A, each channel
UR20-8DI-PN- FSPS	8 digital inputs	rated voltage: 24V DC from internal I bus	Load output rail: 6.4A
LIDOO ODI DNI			Load input rail: 10A
UR20-8DI-PN- FSPS-V2			Load bus rail: 2.56A
UR20-8DI-PN-			Input Signal P-Mode:
FSOE			24V / N-Mode: 0V
UR20-8DI-PN-			Load Sensor Supply:
FSOE-V2			0.8A, each channel
			Load Output signal:
LIBOO ABLOVA	4 District		0.5A, each channel
UR20-4DI-2W- 230V-AC	4 Digital Inputs	rated voltage: 24 V	Rated input voltage: 230V AC



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 9 of 13

Model	Type	Main Input	Auxiliary Input / Output
UR20-1COM-	1 Port	rated voltage: 24V DC from	Input signal: SAI-PRO-Module
SAI-PRO	Communication	internal I bus	
	Extension		Load sensor supply: 3A
UR20-4AI-R-	Al Module	Rated voltage: 24V DC from	Type of input: analog
HS-16-DIAG	7 ti Wioddio	internal I bus	300Ohm50kOhm
	4 analog inputs		Potentiometer supply (internal 10V
			DC): 50mA maximum per
			potentiometer, unfused
UR20-2AI-SG-	Strain Gauge	5Vdc system bus	rated voltage: 24V DC
24-DIAG	module	24V DC from internal I bus	
	2 Analog		
	Inputs		
UR20-4AO-UI-	AO Module	5Vdc system bus	Voltage:
16-M		24V DC from internal O bus	05V, ±5V, 010V,
UR20-4AO-UI-	4 analog		±10V, 15V, 210V
16-M-DIAG	outputs		Current:
UR20-4AI-UI-	Al Module	5Vdc system bus	020mA, 420mA Voltage:
DIF-16-DIAG	Ai Woddie	24V DC from internal I bus	05V, ±5V, 010V,
UR20-4AI-UI-	4 analog inputs		±10V, 15V, 210V
DIF-32-DIAG			Current:
			020mA, 420mA
UR20-4COM-	Comm. Module	5Vdc system bus	0,5 A per channel,
IO-LINK UR20-8DIO-P-	Digital I/O	24V DC from internal I bus 5Vdc system bus: 8mA	total max. 2 A 8 output channels ≤ 0.5 A each
3W-DIAG	Module	24Vdc output rail: 34mA +	6 output channels \$ 0.5 A each
011 21110	Modulo	4*0.3 A sensor supply	
UR20-1SM-	Stepper Motor	5Vdc system bus: 8mA	2 output channels ≤ 0.5 A each
50W-6DI2DO-P	Module	24Vdc input current path: 27	6 input channels max. 0.5 A each
		mA	For 40°C ambient:
		24Vdc output current path: 10 mA	Stepper motor supply 50 V, 2 A; For 60°C ambient:
		10 11// (	Stepper motor supply 30 V, 1 A
UR20-FBC-PB-	Bus Coupler	Input voltage I port: DC 24V	Output voltage system bus:
DP-V2	Profibus DP	+20%/-15%	5Vdc +/-2%
		Input current at I port at full	Output current at system bus at full
		load: ≤10A	load: 2.56A
		Input voltage O port: DC 24V	2.000
		+20%/-15%	Output / input current at O / I Port
			at full load:
		Input current at O port at full	10A at 60°C, horizontal mounting.
		load: ≤10A	



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 10 of 13

Model	Туре	Main Input	Auxiliary Input / Output
UR20-FBC-CC	Bus Coupler CC-Link	Input voltage I port: DC 24V +20%/-15%	Output voltage system bus: 5Vdc +/-2%
		Input current at I port at full load: ≤10A	Output current at system bus at full load: 2.56A
		Input voltage O port: DC 24V +20%/-15%	Output / input current at O / I Port at full load:
		Input current at O port at full load: ≤10A	10A at 60°C, horizontal mounting.
UR20-8DI-ISO- 2W	DI module	5 V DC 8 mA from system bus	24 Vdc and 48 Vdc input types
UR20-4AI-I-	8 digital inputs Al Module	Rated voltage: 24V DC from	Type of input: analog HART
HART-16-DIAG	4 analog inputs	internal I bus	020mA or 420mA; Sensor supply (auxiliary 24V DC):0.5A maximum per sensor, fused
UR20-4AI-UI- ISO-16-DIAG	Al Module 4 analog inputs	Rated voltage: 24V DC from internal I bus	Type of input: analog +/-10V, +/-5V, 010V, 05V, 210V, 15V, 020mA or 420mA
*UR20-1COM-	1 port	Rated voltage: 24V DC from	Data interface signal:
CAN, UR20- 1COM- CANOPEN	Communication module	internal I bus	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, 010V, 05V, 210V, 15V, 020mA or 420mA
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



Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 11 of 13

Model	Туре	Main Input	Auxiliary Input / Output
UR20-2PWM-I- 2.5A-2DI-P	PWM Module with 2 PWM outputs; 2 digital inputs	Rated voltage: 24V DC from internal O bus	2 Inputs, -30 +30Vdc  Sensor supply (auxiliary 24V DC): 0.3 A maximum per sensor, fused  2 PWM outputs: 24V DC, max 3A, 1-channel operation; 24Vdc DC, max 2.5A, 2-channel operation
UR20-AUX- VSYS	Auxiliary module	Rated voltage: 5V DC from internal system bus; rated current: 820 mA	N/A
UR20-8DI-PN-FSCC UR20-8DI-PN-FSPS-V2 (alt. construction) UR20-8DI-PN-FSOE-V2(alt. construction)	Digital input module with 8 digital inputs	Rated voltage: 24V DC from internal bus	Input Signal P-Mode: 24V / N-Mode: 0V Load Sensor Supply: 0.8A, each channel (4)
UR20-4DI- 4DO-PN-FSCC UR20-4DI- 4DO-PN-FSPS- V2 (alt. construction) UR20-4DI- 4DO-PN- FSOE-V2 (alt. construction)	Digital input and output module with 4 digital inputs and 4 digital outputs	Rated voltage: 24V DC from internal bus	Input Signal P-Mode: 24V / N-Mode: 0V Load Output signal: 0.5A, each channel (4) Load Sensor Supply: 0.8A, each channel (2)
*UR20-4AI-I- HART-ISO-16	Analogue input module with 4 analogue inputs	Rated voltage: 24V DC from internal bus	Type of input: 020mA, 420mA, 420mA HART



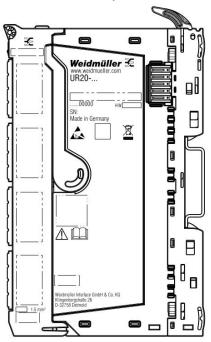
Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

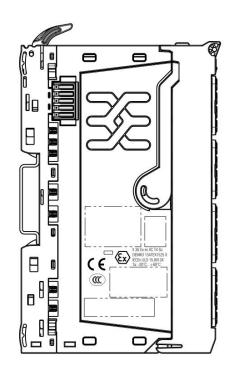
Page 12 of 13

### **MARKING**

Marking has to be readable and indelible; it has to include the following indications:

### Model without relay:



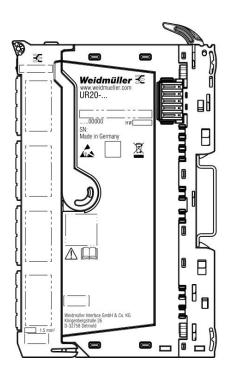


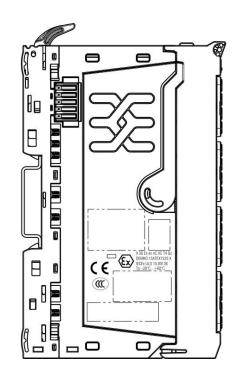


Annex to Certificate No.: IECEx UL 15.0013X Issue No.: 14

Page 13 of 13

### Model with Relay:





### **ROUTINE EXAMINATIONS AND TESTS**

Each piece of equipment defined above has to have successfully passed before delivery:

According to 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.