Wachendorff universal controller UR3274S

- PID controller in 32 x 74 mm format
- Universal input for process signals, thermocouples, Pt100
- 3-digit red display
- Simple programming via keypad or software
- Two switching outputs as relays

https://www.wachendorff-prozesstechnik.de/en/UR3274S

Description

This small universal controller is a compact all-rounder. With a universal input for almost all commercially available temperature sensors, potentiometers and process signals and modern programming, operating and control technologies, this controller is the ideal solution for simple applications. In addition to an excellent price/performance ratio and high quality, the controller impresses with its robust, compact housing and brilliant display.

Product details

Display:	3-digit LED display with 14.2 mm digit height
Keyboard:	4 buttons for programming and setting the setpoint.
Entrance areas:	Setting the input signal in the software or via the keypad. Thermocouple type K,S,R,J; reference junction: internal (from 0 °C to 50 °C; Reference junction accuracy 0.1 °C/°C) Temperature sensors: Pt100, Pt500, Pt1000, Ni100, PTC1K, NTC10K Linear inputs: 0 V to 10 V, 0/4 mA to 20 mA Potentiometer: 0 to 150 kOhm
Accuracy:	at 25 °C 0.5% ± 1 digit for thermocouples and resistance thermometers. 0.2% ± 1 digit for V and mA.
Relay output:	UR3274S1: 1 x changeover relay with 10 A at 230 VAC, 1 x NO contact with 5 A at 230 VAC UR3274S3: 1 x changeover relay with 8 A at 230 VAC, 1 x NO contact with 5 A at 230 VAC Programmable as control output for heating/cooling or alarm.
SSR output:	UR3274S1: 12 VDC at max. 30 mA with 12 VDC supply 35 VDC at max. 30 mA with 35 VDC supply UR3274S3: 8 VDC at max. 20 mA Attention: Ground/minus output is switched. Programmable as control output for heating/cooling or alarm.

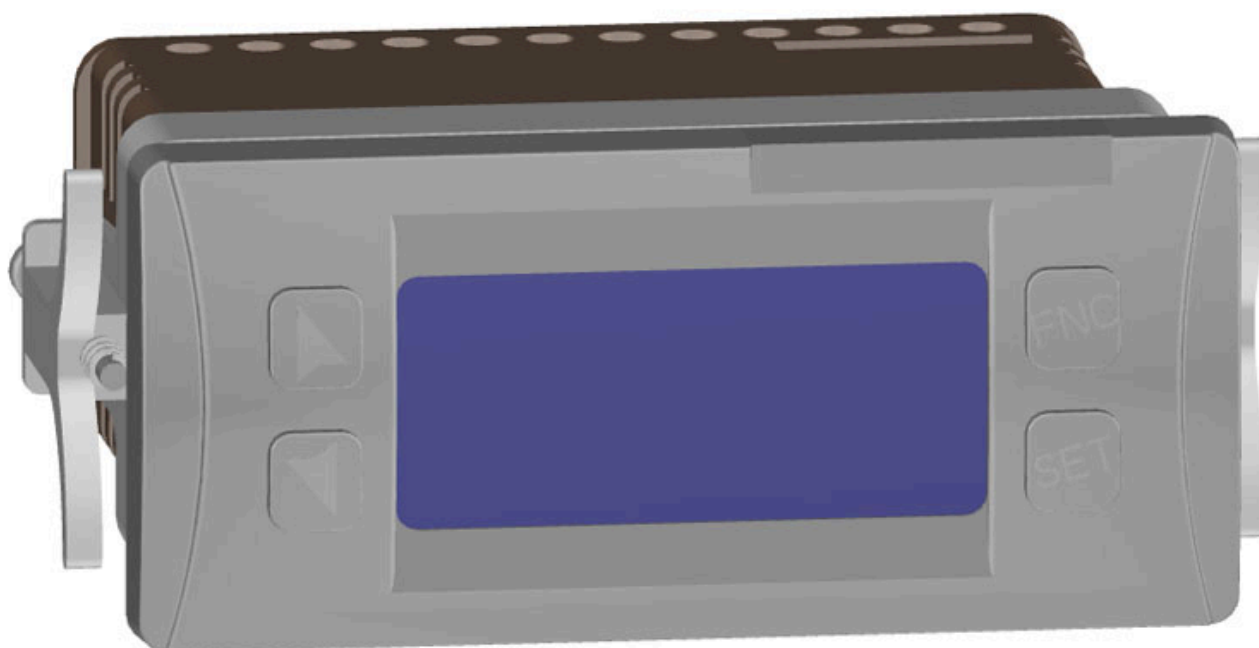|	
Power supply:	UR3274S1: 12 VAC to 24 VAC or 12 VDC to 35 VDC, ±10 %, 50/60 Hz UR3274S3: 230 VAC ±10 %, 50/60 Hz
Protection class:	Water jet-proof and dust-tight to IP65 from the front (with seal), rear protection class IP30, connections IP20.
Housing:	Black, impact-resistant plastic housing.
Ambient conditions:	Operating temperature: 0 °C to +45 °C; Relative humidity 35 % to 95 % rH, non-condensing.
Programming:	Programming and operation is menu-guided via the front buttons. With the programming kit, the controller can also be programmed using Windows™ software. This software is compatible with Windows 7 and Windows 10. The memory card has an internal battery. This makes it possible to program the devices without connecting the power supply (up to 1000 programs with one battery).
Functionality:	Control output for two-point control (with hysteresis) with P, PI, PD and PID behavior. The output is time-proportional. Cycle control for a control valve can also be programmed.
Tuning:	Manual or automatic tuning can be set.
Alarm operating modes:	Absolute/threshold, band, lower/upper Deviation, optional reset via keypad.
Second control output (cooling)	Programmable instead of the alarm output: With P, I, PI, PD and PID behavior. The output is time-proportional. Switching cycle, ratio to heating, overlap or deadband are programmable.
Locks:	Setpoint lock and/or programming lock
Scanning time:	66 ms (15 Hz)
Cycle time:	Internal cycle time is 100 ms (cannot be changed).
Certificates & approvals:	CE, UL

Dimensions (WxHxD):	74 mm x 32 mm x 53 mm. Panel cut-out 28.5 mm x 70.5 mm. Mounting via Mounting frame with plastic clamping bracket.
Connection:	Via screw terminals.
Scope of delivery:	Device, fixing material, seal, operating instructions.
Weight:	100 gram
Certificates:	CE, RoHS
Customs tariff number:	8542 31 90
Manufacturer:	Wachendorff Prozesstechnik GmbH & Co. KG

Products Order no.	
UR3274S1	Universal regulator, 32 mm x 74 mm, 12 to 24 VAC/DC
UR3274S3	Universal regulator, 32 mm x 74 mm, 230 VAC

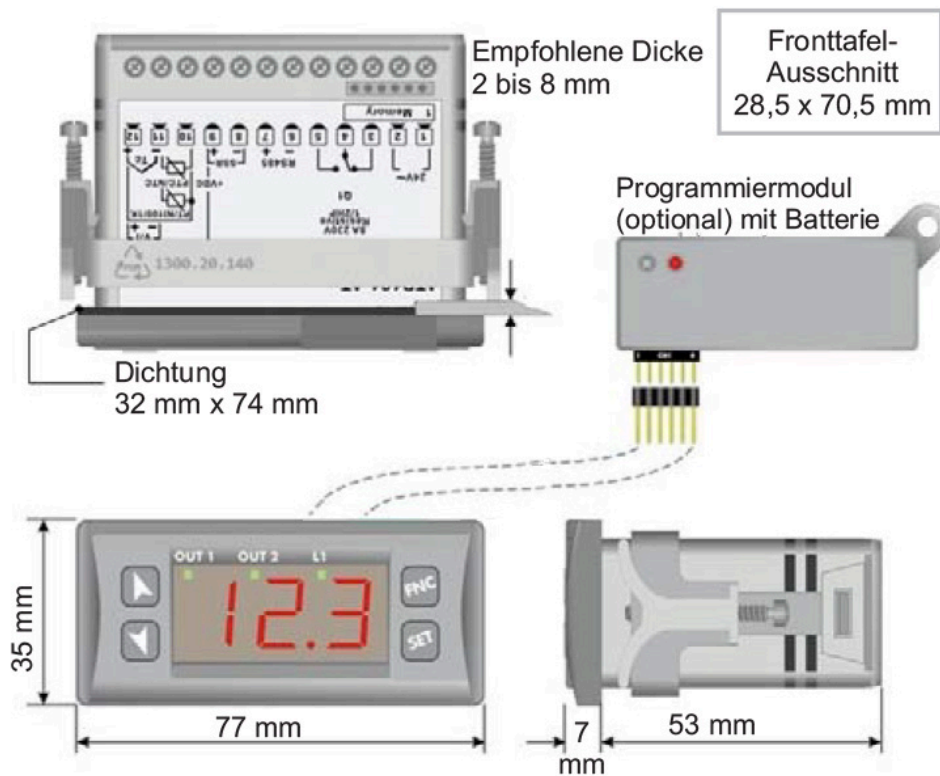| Accessories Order no.	
SFUR0USB	USB programming module (optional for series commissioning)
KABUSBM2	USB programming cable, USB 2.0A to micro USB, 2 m cable
DRS4-24A	Power supply unit for top-hat rail, 85 to 264 VAC, 24 VDC 4.2 A, screw terminal
URDR3274	DIN rail adapter for devices in the UR3274 series

Drawings

Step file:

Dimensions:

Empfohlene Dicke
2 bis 8 mm

Fronttafel-
Ausschnitt
28,5 x 70,5 mm

Programmiermodul
(optional) mit Batterie

Dichtung
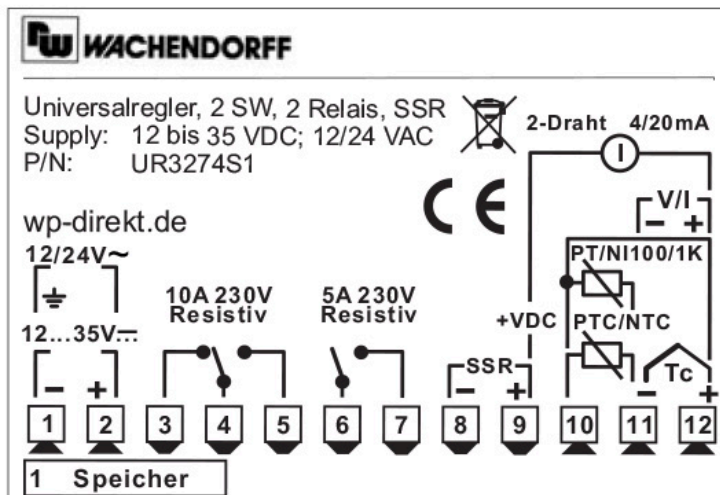32 mm x 74 mm

OUT 1 OUT 2 L1

12.3

FNC
SET

35 mm

77 mm

7 mm

53 mm

Abmessungen
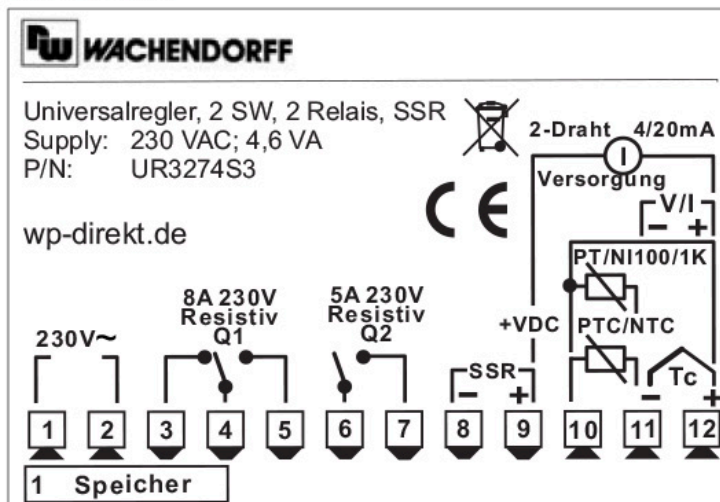
Anschlüsse:

UR3274S1

UR3274S3

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