

# Universal relay box type URB40

Extension for universal relay (UR) with additional relay outputs, communication via Modbus RTU

## URB40



Part number:  
URB40 **T224356**

### Relay extension box type URB40, for universal relay box type UR

The URB40 universal relay box is an extension box for UR devices that can be used to control up to four additional relay outputs via Modbus RTU. The URB40 monitors the communication between the devices and can transfer each relay output to a predefined state in the event of a timeout. The device has no operating elements and is controlled and configured exclusively via the RS-485 interface.

### Application:

With the URB40, an additional four alarms and relays are available, and the device can also be easily operated on other control systems via the integrated RS 485 interface.

- 4 additional alarms
- No additional control system required
- Easy extension of existing control systems of the UR series
- Space-saving installation

### Control voltage:

DC/AC 24-270 V 0/50/60 Hz

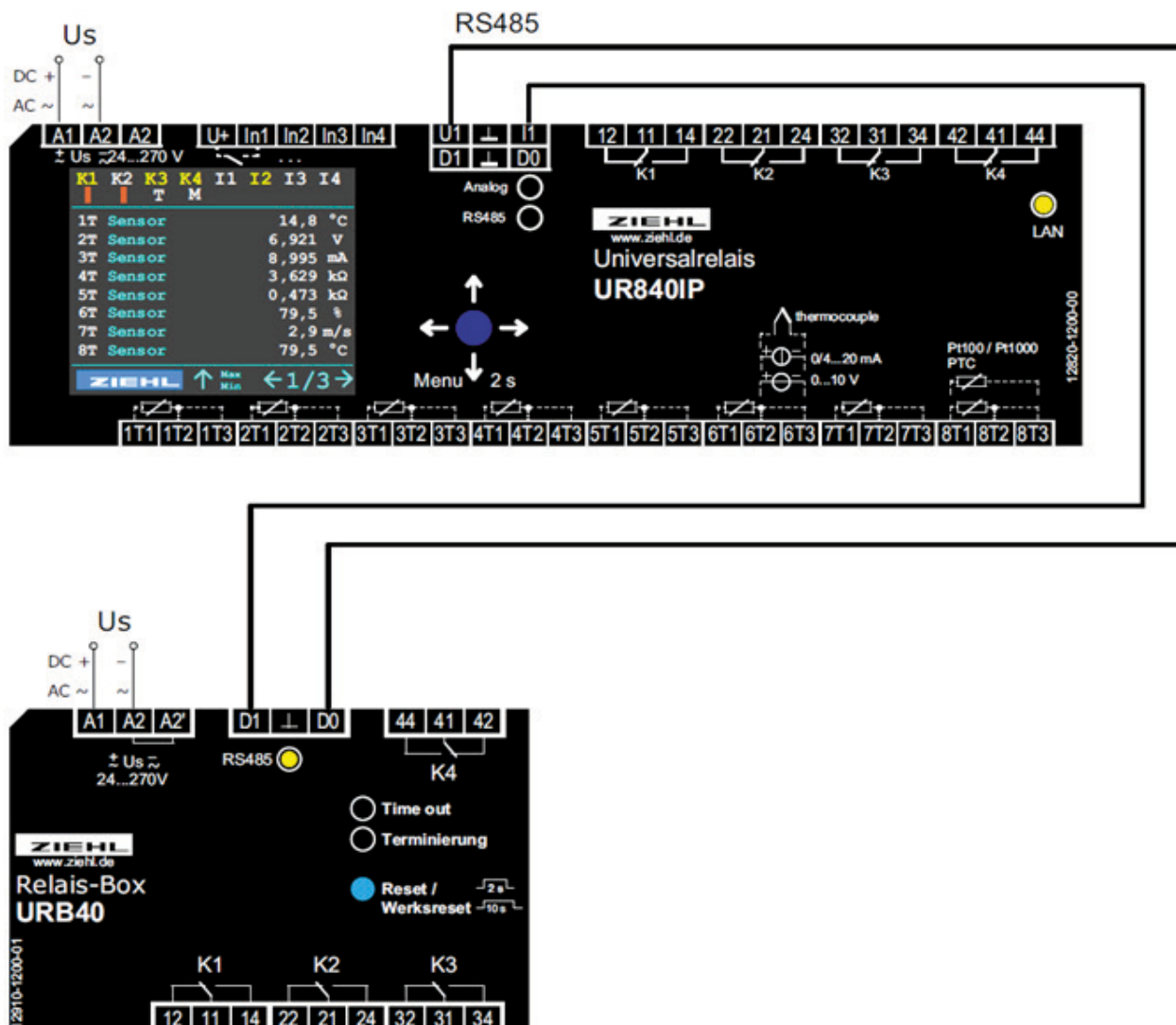
### Output relay:

4 x 1 changer max. AC 300 V; DC 300 V

### Interfaces:

RS485 (Modbus RTU)

Connection diagram:



## Technical Data URB40

Rated supply voltage $U_s$		DC/AC 24-270 V	0/50/60 Hz
	Tolerance	DC 20.4-297 V	AC 20-297 V
Relay outputs K1, K2, K3, K4	Switching voltage	4 x 1 changeover contact max. AC 300 V, DC 300 V	
	Inrush current N/O contact	AC 15 A 4s 10% ED	
	Minimum values voltage/current	12 V 10 mA	
	Conventional thermal current $I_{th}$	max. 5 A	
	Switching capacity max. AC $\cos \varphi = 1$	1500 VA	
	Switching capacity max. DC (ohmic)	0.3 A 300 V; 0.4 A 120 V; 0.8 A 60 V; 8 A 30 V	
	Rated operating current	DC-13 $I_e = 2.0 A$ $U_e = 24 V$	
	Rated operating voltage	DC-13 $I_e = 0.4 A$ $U_e = 120 V$ DC-13 $I_e = 0.2 A$ $U_e = 240 V$	
RS485 - Interface	Speed	4800, 9600, 19200, 57600, 115200 Baud	
	Addressing	1-247	
	Data bits	8 bits	
	Stop bits	1, 2 bits	
	Parity	even, odd, no	
	Terminating resistor	120 ohms (can be switched on & off)	
Test conditions		EN 61010-1	
	Rated impulse withstand voltage	4000 V	
	Overvoltage category	III	
	Pollution degree	2	
	Rated insulation voltage $U_i$	300 V	
	Duty cycle insulation	100 %	
	Test voltage	3.5 kV, $U_{eff}$ , 50 Hz, 1 min.	
Installation conditions	Permissible ambient temperature	-4 °F (-20 °C) ... +149 °F (+65 °C)	
	Permissible storage temperature	-4 °F (-20 °C)...+158 °F (+70 °C)	
	Installation height	< 2000 m above sea level	
	Climate resistance	5-85% relative humidity, no condensation	
	Permissible wiring temperature	23 °F ...+158 °F (-5 °C ...+70 °C)	
	Oscillation	IEC 60255-21-1 / class 1	
	Shock	IEC 60255-21-2 / class 1	
	Seismic stress	IEC 60255-21-3 / class 1	
Housing		Type V4, distributor installation	
	Dimensions (W x H x D)	2.76 x 3.54 x 2.28 in. (70 x 90 x 58 mm)	
	Width	4 TE	
	Protection class housing	IP30	
	Fastening	Snap-on fastening on 1.38 in. (35 mm) mounting rail in accordance with EN 60715 or M4 screw fastening (additional latch not included in scope of delivery)	
	Installation position	as required	
Weight	0.44 lbs (200 g)		