

# Product data sheet

Specifications



## Programmable receiver, 4 PNP, 200 mA, 24 V DC, 2 pushbuttons, 6 LEDs

XZBWR2STT24

### Main

Product or component type	Programmable receiver
Device application	Interface to PLC
Product compatibility	Radio transmitter XZBWE

### Complementary

Function of module	Receiver unit for remote sensor
Maximum number of transceivers	ZigBee: <2
Nominal output current	0.8 A at 24 V DC
Output type	Transistor PNP
Output contacts	4 PNP
Time delay range	0.5 s (tolerance: - 15...15 %)
Starting time	<= 400 ms
Maximum switching current	200 mA DC
Minimum switching current	10 mA
[Us] rated supply voltage	24 V DC - 15...20 %
Maximum voltage drop	<2 V (nominal output current: 200 mA)
Communication port protocol	Zigbee green power at 2.4 GHz
Maximum sensing distance	100 m in free field 25 m in a metal enclosure
Response time	< 30 ms after sensor change
Number of channels	2 per receiver
Utilisation category	DC-13 conforming to EN/IEC 60947-5-1
Maximum power consumption in W	26 W DC
Breaking capacity	4.8 W (per output)
Short-circuit protection	1 A fuse type fast blow
Operating position	Any position without derating
Electrical connection	1 conductor cable 0.14...2.5 mm <sup>2</sup> AWG 26...AWG 14 solid without cable end conforming to IEC 60947-1 2 conductors cable 0.14...1.5 mm <sup>2</sup> AWG 26...AWG 16 solid without cable end conforming to IEC 60947-1 1 conductor cable 0.14...4 mm <sup>2</sup> AWG 26...AWG 12 flexible with cable end conforming to IEC 60947-1

2 conductors cable 0.14...1.5 mm<sup>2</sup> AWG 26...AWG 16 flexible with cable end conforming to IEC 60947-1

<b>Tightening torque</b>	0.5...1 N.m conforming to EN/IEC 60947-1
<b>Housing material</b>	Self-extinguishing plastic
<b>Status LED</b>	1 LED green for power ON 1 LED green and yellow for reception signal 4 LEDs green for output active
<b>Mounting support</b>	35 mm symmetrical DIN rail conforming to EN/IEC 60715 Mounting plate
<b>Rated short-duration power frequency withstand voltage</b>	1 kV 50 Hz conforming to EN/IEC 60947-5-1
<b>[Uimp] rated impulse withstand voltage</b>	0.8 kV
<b>Width</b>	36 mm
<b>Height</b>	108 mm
<b>Depth</b>	75 mm
<b>Net weight</b>	0.13 kg
<b>Marking</b>	CE

## Environment

<b>Surge withstand</b>	0.5 kV differential mode conforming to IEC 61000-4-5 1 kV common mode conforming to IEC 61000-4-5
<b>Standards</b>	EN/IEC 60947-5-1 EN/IEC 60947-1
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Relative humidity</b>	90 % at -20...55 °C, without condensation conforming to ETSI EN 300 328
<b>Vibration resistance</b>	+/- 7.5 mm (f= 5...14 Hz) conforming to IEC 60068-2-6 2 gn (f= 8...150 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>	10 gn (duration = 16 ms) for 6000 shocks conforming to IEC 60068-2-27
<b>IP degree of protection</b>	IP20 (casing) conforming to IEC 60529 IP20 (terminals) conforming to IEC 60529
<b>Pollution degree</b>	2 conforming to IEC 60664-1
<b>Overvoltage category</b>	III conforming to IEC 60664-1
<b>Insulation resistance</b>	> 500 MOhm at 500 V DC conforming to NF C 20-030
<b>[Ui] rated insulation voltage</b>	60 V conforming to IEC 60664-1
<b>Electromagnetic compatibility</b>	Immunity for industrial environments conforming to EN/IEC 61000-6-2 Conducted and radiated emissions class B conforming to CISPR 22 Electrostatic discharge immunity test 8 kV in free air (in insulating parts) conforming to IEC 61000-4-2 Electrostatic discharge immunity test 6 kV on contact (on metal parts) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields 10 V/m, 80 MHz...1 GHz at 3 m conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields 3 V/m, 1.4 MHz...2 GHz at 3 m conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test 2 kV power supply wires conforming to IEC 61000-4-4 Conducted RF disturbances 10 V conforming to IEC 61000-4-6 Radiated emission conforming to ETSI EN 301 489-17 Conducted emission conforming to ETSI EN 301 489-17 Radiated emission conforming to ETSI EN 300 328 Electrical fast transient/burst immunity test 1 kV PNP output wires conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test 0.5 kV differential mode conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test 1 kV common mode conforming to IEC 61000-4-5 Immunity to microbreaks and voltage drops 7 ms conforming to IEC 61000-4-11

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	128.0 g
<b>Package 1 Height</b>	13 cm

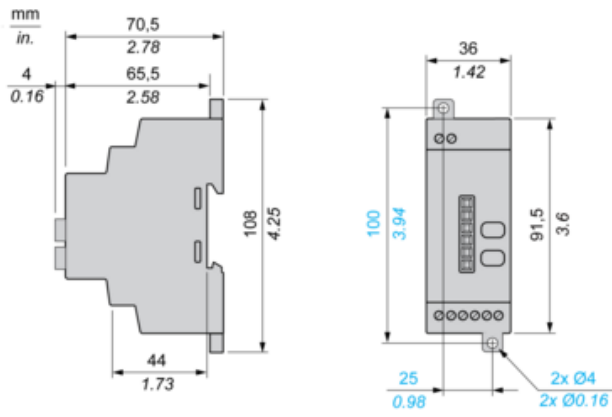
Package 1 width	9.8 cm
Package 1 Length	4.4 cm
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	3.137 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

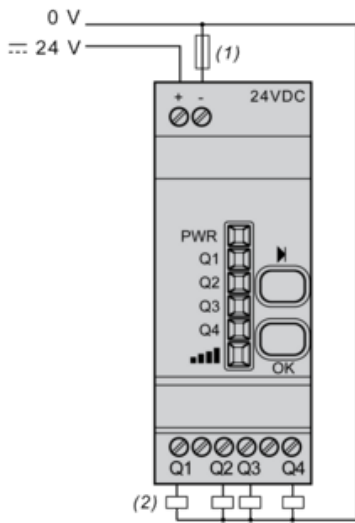
## Receiver Dimensions

---



## Receiver Wiring Diagram

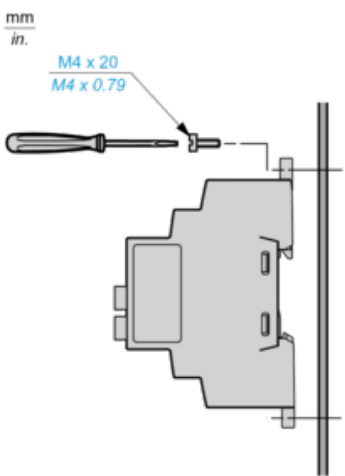
---



- (1) 400 mA fast-blow fuse
- (2)  $I_{max} = 200 \text{ mA}$

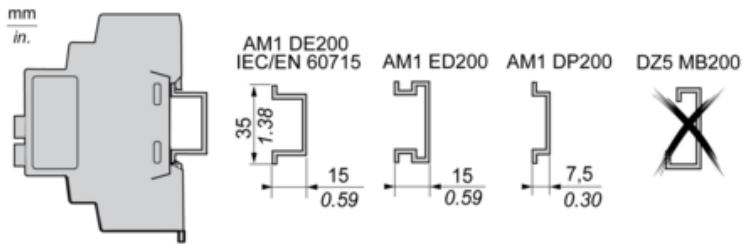
**Receiver Mounting**

---



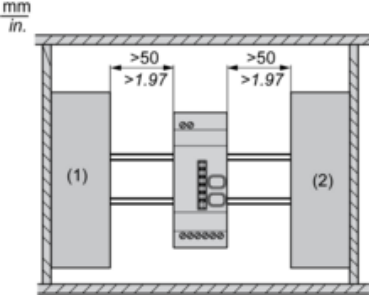
**Receiver Mounting**

---



**Receiver Mounting**

---

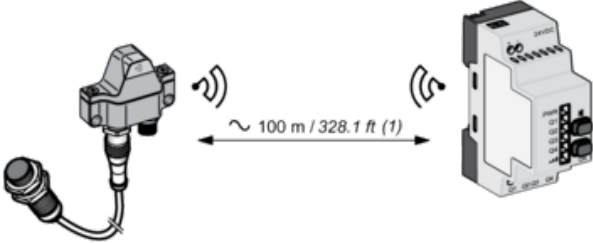


- (1) Drive
- (2) Power Supply or PLC



**Unobstructed Mounting**

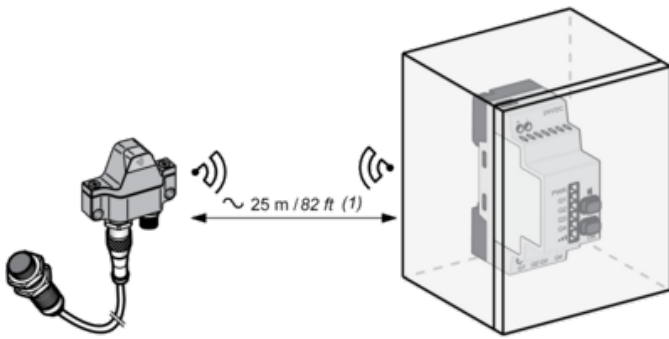
---



(1) Typical values that may be modified by the application environment.

## Mounting in a Metal Cabinet

---



(1) Typical values that may be modified by the application environment.