

# Technical data sheet

## ANGEL React Watchdog

The ANGEL React system supports you in your daily work and gets help when you can no longer do it. The Watchdog can be used for mobile or stationary applications. If an accident is detected by the electronics unit, the Watchdog trips immediately the integrated potential-free contact and can trigger an emergency-off circuit.

### Who should use an ANGEL React Watchdog?

- All persons being exposed to the danger of an electrical accident
- When working with voltage sources or workplaces with emergency-stop buttons.

### ANGEL React Watchdog

Weight: 275 g  
Dimensions: 105 x 178 x 56 mm  
Dimensions of Watchdog package: 210 x 297 x 60 mm  
IP protection: IP 20  
Humidity: 5 – 95 % rh, non-condensing  
Usage: indoor  
Maximum operating height: 2000 m above sea level  
Pollution degree: PD2

### Working conditions

Operation: -10 °C to 55 °C  
Storage: -10 °C to 55 °C

### Data about the potential-free contact

Voltage range: 250 Vrms/4A, 50 – 60 Hz  
Minimum switching current: 3 mA  
Maximum switching capacity: 24 Vdc/4A  
Switching capacity range: 40 mW – 1.000W (VA)

### Functioning

Power off: single-pole  
The Watchdog is maintenance-free, cleaning is not intended.

### Power supply

Device is OEM and potentially subject to change.  
Input current: only with ADRESYS connection cable and power-limited power supply according to IEC61010-1 and IEC61010-2-201.

Connection: USB-C Euro or Ireland/UK power supply  
Nominal voltage: 5 V +/- 10 percentage  
Overvoltage category: OVC II  
Protection level: IP 20  
Protection Class: II, protective insulated connection  
Voltage range: 100 – 240 Vrms/50 – 60 Hz Input

### Watchdog connection cable

Cable data: 300Vrms/5A, 2x0,5mm<sup>2</sup>, 2m length

#### Ends:

- For testing devices that can be switched off using a potential-free contact with the option of executing external commands.
- With ANGEL React Connection Cable for Restart Inhibit for Watchdog.
- Open-ended.
- More configurations on request.

### EMC standards

**EN 55011** Group 1, Class B:  
Electromagnetic disturbance characteristics  
• Limits and methods of measurement  
**EN61326-1:2013**: Electrical equipment for measurement, control and laboratory use - EMC requirements  
**EN300328 V2.2.2**: Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band  
**FCC 47 CFR Part 15**: Federal Communications Commission (FCC) rules and regulations regarding unlicensed transmissions  
**IEC 61010-1:2010 + AMD1:2016**  
**EN 61010-1:2010 + A1:2019**  
**EN IEC 61010-2-201:2018**  
Contains FCC-ID: X8WBT840  
Contains IC: 4100A-BT840

### ANGEL React app

The ANGEL React app is the companion app for the ANGEL React Shirt Genius or ANGEL React Clip Genius running on Android and iOS smartphones. The app is constantly running in the background when installed on a phone. This increases battery consumption of the phone. A permanent data connection is required for sending alarm messages and communication with the ANGEL React infrastructure services.  
Supported Operating Systems: Android from 7.1.1, from iOS 14  
System requirements: Bluetooth LE (4.2 or higher), Location service (for example, GPS), Internet connection (for example, WiFi or 3G/LTE/5G).

## Infrastructure

Multi-redundant data infrastructure in European locations

Redundant alarm paths:  $\geq 2$

Non-redundant server for user registration.

Registration is obligatory to use service.