

Technical data sheet

ANGEL React Watchdog

The 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 immediately switches off voltage sources.

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–10.000 (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 smaller than 15W according to IEC61010-1 and IEC61010-2-201.

Connection: Euro male Typ C, USB-A female

Nominal voltage: 5V +/- 10 percentage

Nominal current: 230 mA

Overvoltage category: OVC II

Protection level: IP 20

Protection Class: II, protective insulated

Connection: Voltage range: 100–240 Vrms/50–60 Hz

Input current: maximum 300 mA Arms

Output current: maximum 1 ADC

Watchdog Connection Cable

Cable data: 300 Vrms/5A, 2x0,5mm², 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 Connector 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

EN62368-1:2015 + AC 2015:

Audio/video, information and communication technology equipment - Part 1: Safety requirements

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 needs to run permanently in the background.

This increases battery usage of the phone. A permanent data

Mai 2023, V4.0

Technical data sheet

Angel React Watchdog

connection is required for sending alarm messages and to communicate with the ANGEL React infrastructure services.
Supported Operating Systems: Android from 7.1.1, from iOS 10
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 Geolocations:
2 redundant alarm paths from phone to emergency center: ≥ 2
Emergency Center certifications: VdS 3138-1:2013-12,
VdS 3138-2:2014-06, DIN EN 50518-1:2014-10,
DIN EN 50518-2:2014-10, DIN EN 50518-3:2014-10.
Not redundant server for user registration.
Registration is obligatory to use service.

Technical data Sheet

ANGEL React Restart Inhibit for Watchdog

The system supports you in your daily work and gets help when you can no longer do it. The restart inhibit for the Watchdog is mounted stationary to the Watchdog at your work place. The restart inhibit complies with EN ISO 13850:2015 and ensures that the emergency stop circuit works reliably.

ANGEL React Restart Inhibit for Watchdog

Weight: 2.72 kg

Dimensions: 300 x 200 x 163 mm

Brennbarkeit Gehäuse: UL94-V0

Dimensions of Restart Inhibit Package: 20 x 25 x 35 mm

IP protection: IP 20

Humidity: 5–95 % rh, non-condensing

Usage: indoor

Maximum operating height: 2000 m above sea level

Pollution degree: PD2

Protection clas: II, protective insulated

The restart inhibit is maintenance-free, cleaning is not intended.

Working conditions

Operation: -10 °C to 55 °C

Storage: -10 °C to 55 °C

Data about the potential-free contacts

Minimum switching voltage: 12V AC/DC

Maximum switching voltage: 250V AC/DC

Maximum switching current: 4 A AC/DC

Switching capacity range: 60 mW to 1000 W

Maximum inrush current: 6 A AC/DC

Fuse output circuit: 4 A gL/gG 10 x 38 mm cartridge fuse

Mechanical switching cycles: 10 mil

Functioning

Power off: single or double pole, depending on the type of wiring chosen

Connections

- Connection I/O line: 2x PG11 screwing
- Connection Watchdog: 1x Lemo socket black
- Connection USB-C port: for supplying external devices (Watchdog) max. 2A/5VDC

Watchdog connection cable

Cable data: 300Vrms/5A, 2 x 0,5 mm², 2 m length

EMC standards

EN IEC 61000-6-1 :2019 EMC Immunity Standard

EN IEC 61000-6-3 :2007+A1 :2021 EMC Emission Standard

EN61439-1: 2011 Low-voltage switchgear and controlgear assemblies