



PRODUCT-DETAILS

# Sentry USR10

## Sentry USR10 Safety relay



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### General Information

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|                       |  |
|-----------------------|--|
| Extended Product Type | Sentry USR10   |
| Product ID            | 2TLA010070R0000  |
| EAN                   | 7350024483376  |
| Catalog Description   | Sentry USR10 Safety relay  |
|                       | Sentry USR10 Universal safety relay with delayable relay outputs 3NO+1NC, +24 VDC power supply and screw terminals.  |
|                       | For monitoring of safety devices with contacts, 1 or 2 equivalent or antivalent channels, safety devices with OSSD outputs, two-hand devices, safety mats and safety edges/bumpers.  |
|                       | Timer function 0-999 seconds with a better accuracy than 1%: OFF-delay, ON-delay, Time bypass and Time reset.  |
|                       | A display on front facilitates configuration and troubleshooting by displaying error codes and error log. A custom configuration can be protected by password.   |
|                       | Manual or automatic reset selectable.  |
| Long Description      | Sentry safety relays cover various types of safety applications up to PLe / SIL3. Basic models provide reliable supervision of simpler safety functions, while universal models provide advanced features and high flexibility. Models with display offer preset configurations and extensive information to further simplify troubleshooting. Additional variants offer a high accuracy timer function of ± 1% and an adjustable time setting range from 0-999 s. High output current capacity of up to 6 A can save the use of an intermediary contactor. Multi-reset allows up to 10 safety relays connected to one reset light-button. All models are available with detachable push-in or screw terminals. Terminals and coding kit to mark removed terminals are available as accessories. |

Ordering

|                        |   |
|------------------------|---|
| Minimum Order Quantity | 1 piece   |
| Customs Tariff Number  | 85364900  |
| Product Main Type      | USR   |
| Product Name           | Safety relay  |
| Function               | Safety relay for monitoring of safety devices   |
| Sub-Function           | Start/test input, configurable Manual/Auto reset and Timer, Display (error indication and error log)            |
| Special Functions      | Configurable (manual/auto reset, type of input, timer type, time) with display (error indication and error log) |

Popular Downloads

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 2TLC010037L0201                    |
| Instructions and Manuals          | 2TLC010072M0201                    |
| Dimension Diagram                 | 2TLC010001U0201                    |
| Wiring Diagram                    | 2TLC010016T0001                    |
| CAD Dimensional Drawing           | 2CDC001079B0201                    |
| Marketing Video                   | 2TLC010019N0201<br>2TLC010018N0201 |

Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Depth / Length | 120 mm  |
| Product Net Height         | 120 mm  |
| Product Net Width          | 22.5 mm |

|                    |          |
|--------------------|----------|
| Product Net Weight | 0.229 kg |
|--------------------|----------|

Safety Information

|                              |   |
|------------------------------|---|
| Certification Agency         | cULus<br>TÜV SÜD<br>CE<br>CCC<br>RCM<br>S<br>UKCA<br>KC |
| Performance Level (PL)       | Up to e   |
| Safety Integrity Level (SIL) | 3   |

Technical

|  |                    |
|--|--------------------|
| Number of Outputs                              | Failsafe (Relay) 4 |
| Rated Control Supply Voltage (U <sub>s</sub> ) | 24 V DC            |
| Time Range                                     | 0 ... 999 seconds  |

Environmental

|                         |  |
|-------------------------|--|
| Ambient Air Temperature | Operation -25 ... +65 °C<br>Storage -40 ... +70 °C |
| Degree of Protection    | IP20   |
|                         | 10% ... 90%; no icing; occasional condensation     |

Material Compliance

|   |  |
|---|--|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658  |
| REACH Declaration                           | 2CMT2022-006480  |
| RoHS Information                            | 2CMT2022-006499  |
| RoHS Status                                 | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA         | 2CMT2023-006522  |
| WEEE B2C / B2B                              | Business To Business   |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm)             |

Certificates and Declarations

|                                  |                     |
|----------------------------------|---------------------|
| CQC Certificate                  | CQC2017010303977544 |
| cUL Certificate                  | 2TLC010006D0201     |
| cULus Certificate                | 2TLC010007D0201     |
| Declaration of Conformity - CCC  | 2020980303000244    |
| Declaration of Conformity - CE   | 2TLC010010D0201     |
| Declaration of Conformity - UKCA | 2TLC010190D0201     |
| KC Certificate                   | 2TLC010048D0201     |

TÜV Certificate

2TLC010008D0201

Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 125 mm        |
| Package Level 1 Depth / Length | 31 mm         |
| Package Level 1 Height         | 129 mm        |
| Package Level 1 Gross Weight   | 0.29 kg       |
| Package Level 1 EAN            | 7350024483376 |

Classifications

|                                    |   |
|------------------------------------|---|
| eClass                             | V11.0 : 27371819  |
| ETIM 7                             | EC001449 - Device for monitoring of safety-related circuits |
| ETIM 8                             | EC001449 - Device for monitoring of safety-related circuits |
| ETIM 9                             | EC001449 - Device for monitoring of safety-related circuits |
| IDEA Granular Category Code (IGCC) | 5367 >> Control relay                                       |
| UNSPSC                             | 39122331  |
| Object Classification Code         | K   |
| E-Number (Finland)                 | 2712531   |
| E-Number (Sweden)                  | 3860828   |

Accessories

| Identifier      | Description                | Type        | Quantity | Unit Of Measure |
|-----------------|----------------------------|-------------|----------|-----------------|
| 2TLA010099R0000 | Sentry S30A Terminal block | Sentry S30A | 1        | piece           |
| 2TLA010099R0100 | Sentry S30B Coding kit     | Sentry S30B | 1        | piece           |
| 2TLA010099R0001 | Sentry S30C Terminal block | Sentry S30C | 1        | piece           |

Categories

- Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Safety Relays → Safety Timers
- Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Safety Relays → Universal Safety Relays
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