



# T4000-1RCA04

T4000 Multi

NON-CONTACT SAFETY SWITCHES

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
T4000-1RCA04	6029947

Other models and accessories → [www.sick.com/T4000\\_Multi](http://www.sick.com/T4000_Multi)



### Detailed technical data

#### Features

<b>System part</b>	Evaluation unit
--------------------	-----------------

#### Safety-related parameters

<b>Category</b>	Category 4 (EN ISO 13849)
<b>Performance level</b>	PL e (EN ISO 13849)
<b>PFH<sub>D</sub> (mean probability of a dangerous failure per hour)</b>	15 * 10 <sup>-9</sup> <sup>1)</sup> 9.6 x 10 <sup>-8</sup> <sup>2)</sup>
<b>T<sub>M</sub> (mission time)</b>	20 years (EN ISO 13849) <sup>1)</sup> 2 years (EN ISO 13849) <sup>2)</sup>
<b>Type</b>	Type 4 (EN ISO 14119)
<b>Actuator coding level</b>	High coding level (EN ISO 14119)
<b>Classification in compliance with IEC/EN 60947-5-3</b>	PDF-M

<sup>1)</sup> With < 23.000 switching cycles p.a.

<sup>2)</sup> With < 180.000 switching cycles p.a.

#### Functions

<b>Safe series connections</b>	None, only individual wiring (with diagnostics)
--------------------------------	---

#### Interfaces

<b>IO-Link Safety</b>	WCDT ≤ 450 ms
<b>Number of non-contact safety switches</b>	1 ... 4
<b>Display elements</b>	<ul style="list-style-type: none"> <li>Power indication ✓</li> <li>Out indication ✓</li> <li>Error indication ✓</li> <li>Status display ✓</li> </ul>

## Electrical data

<b>Protection class</b>	III (EN 50178)
<b>Contamination rating</b>	2
<b>Classification according to cULus</b>	Class 2
Note on supply voltage $U_S$	Operation with UL-class 2 power supply only
External fuse	At supply voltage $V_S$ 0.4 A ... 8 A
Switching voltage	60 V DC / 30 V AC
<b>Usage category</b>	AC-12/DC-12, AC-14/DC-13 (EN 60947-5-1)
<b>Rated operating current (voltage)</b>	0.3 A (60 V AC) 50 Hz 6 A (30 V AC) 50 Hz 0.3 A (60 V DC) 6 A (30 V DC) 1.5 A (230 V AC) 50 Hz 1.2 A (24 V DC)
<b>Rated insulation voltage <math>U_i</math></b>	250 V
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	4,000 V AC
<b>Supply voltage <math>V_s</math></b>	24 V DC (21 V DC ... 27 V DC)
<b>Short-circuit protection</b>	6 A gG
<b>Type of output</b>	Relays
<b>Switching voltage</b>	$\geq 1$ V DC
<b>Response time</b>	$\leq 450$ ms
<b>Switch-on time</b>	10 s <sup>1)</sup>
<b>Number of application diagnostic outputs</b>	4 semiconductor, p-switching
<b>Number of safe outputs (N/O)</b>	2

<sup>1)</sup> When the operating voltage is switched on, the relay outputs are electrically isolated during the initialisation period, and the door alarm contact set to LOW .

## Mechanical data

<b>Design</b>	Rectangular
<b>Dimensions (W x H x D)</b>	45 mm x 114 mm x 99 mm
<b>Weight</b>	250 g
<b>Housing material</b>	Plastic PA6.6
<b>Mechanical life</b>	10 x 10 <sup>6</sup> switching cycles

## Ambient data

<b>Enclosure rating</b>	IP20
<b>Ambient operating temperature</b>	0 °C ... +55 °C
<b>Storage temperature</b>	0 °C ... +70 °C

## Classifications

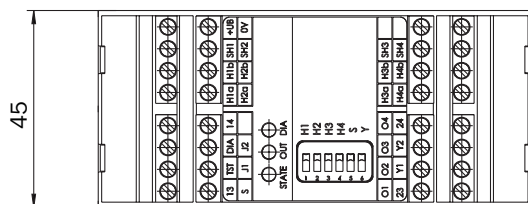
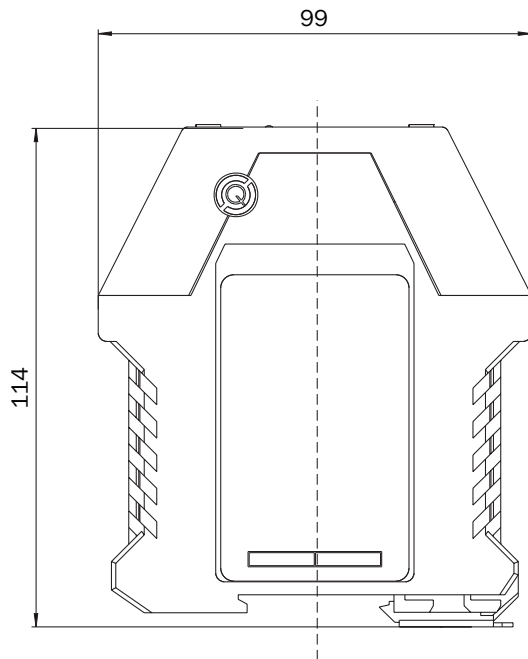
<b>ECLASS 5.0</b>	27272403
<b>ECLASS 5.1.4</b>	27272403
<b>ECLASS 6.0</b>	27272403
<b>ECLASS 6.2</b>	27272403
<b>ECLASS 7.0</b>	27272403
<b>ECLASS 8.0</b>	27272403

# T4000-1RCA04 | T4000 Multi

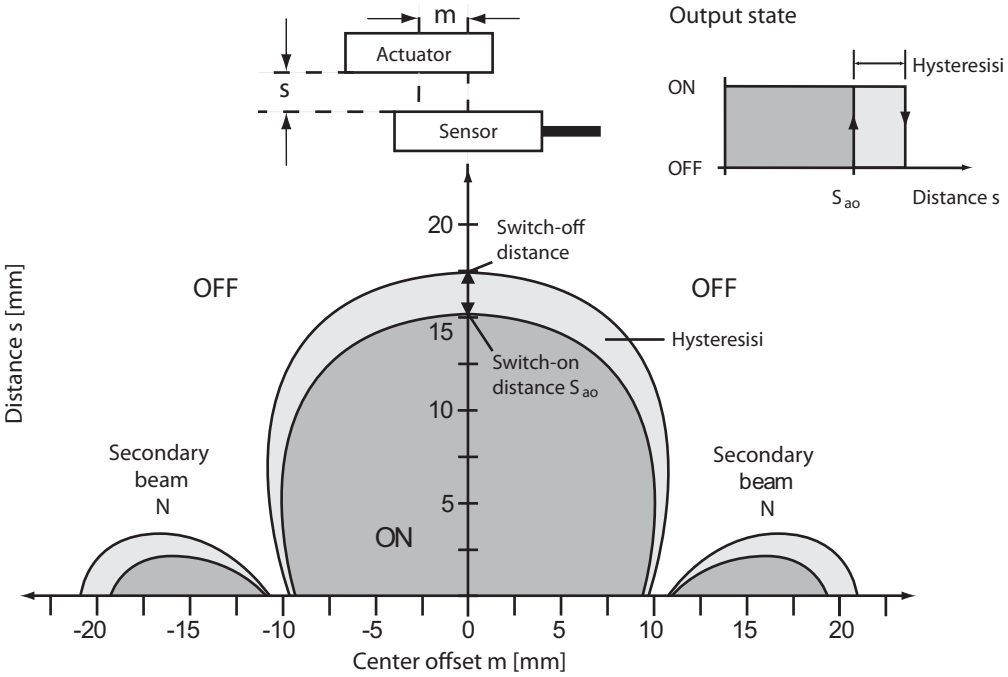
## NON-CONTACT SAFETY SWITCHES

<b>ECLASS 8.1</b>	27272403
<b>ECLASS 9.0</b>	27272403
<b>ECLASS 10.0</b>	27272403
<b>ECLASS 11.0</b>	27272403
<b>ECLASS 12.0</b>	27274601
<b>ETIM 5.0</b>	EC001829
<b>ETIM 6.0</b>	EC001829
<b>ETIM 7.0</b>	EC001829
<b>ETIM 8.0</b>	EC001829
<b>UNSPSC 16.0901</b>	39122205

### Dimensional drawing (Dimensions in mm (inch))



Response range



## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)