



DATA SHEET

T4000-1RCA04

T4000 Multi
Non-contact safety switches

SICK

Sensor Intelligence



NON-CONTACT SAFETY SWITCHES

T4000-1RCA04

ORDERING INFORMATION

Type	part no.
T4000-1RCA04	6029947

Further device versions and accessories at www.sick.com/T4000_Multi



DETAILED TECHNICAL DATA

FEATURES

System part	Evaluation unit
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SAFETY-RELATED PARAMETERS

Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
PFH _D (mean probability of a dangerous failure per hour)	15 * 10 ⁻⁷ ¹⁾ 9.6 x 10 ⁻⁸ ²⁾
T _M (mission time)	20 years (EN ISO 13849) ¹⁾ 2 years (EN ISO 13849) ²⁾
Type	Type 4 (EN ISO 14119)
Actuator coding level	High coding level (EN ISO 14119)
Classification in compliance with IEC/EN 60947-5-3	PDF-M

¹⁾ With < 23.000 switching cycles p.a.
²⁾ With < 180.000 switching cycles p.a.

FUNCTIONS

Safe series connection	None, only individual wiring (with diagnostics)
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INTERFACES

Number of non-contact safety switches	1 ... 4
Display elements	
Power indication	✓
Out indication	✓
Error indication	✓

Status display ✓

ELECTRONICS

Protection class	III (EN 50178)
Contamination rating	2
Classification according to cULus	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
Usage category	AC-12/DC-12, AC-14/DC-13 (EN 60947-5-1)
Rated operating current (voltage)	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)
Rated insulation voltage U_i	250 V
Rated impulse withstand voltage U_{imp}	4,000 V AC
Supply voltage V_s	24 V DC (21 V DC ... 27 V DC)
Short-circuit protection	6 A gG
Type of output	Relays
Switching voltage	≥ 1 V DC
Response time	≤ 450 ms
Switch-on time	10 s ¹⁾
Number of application diagnostic outputs	4 semiconductor, p-switching
Number of safe outputs (N/O)	2

¹⁾ 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.

MECHANICS

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

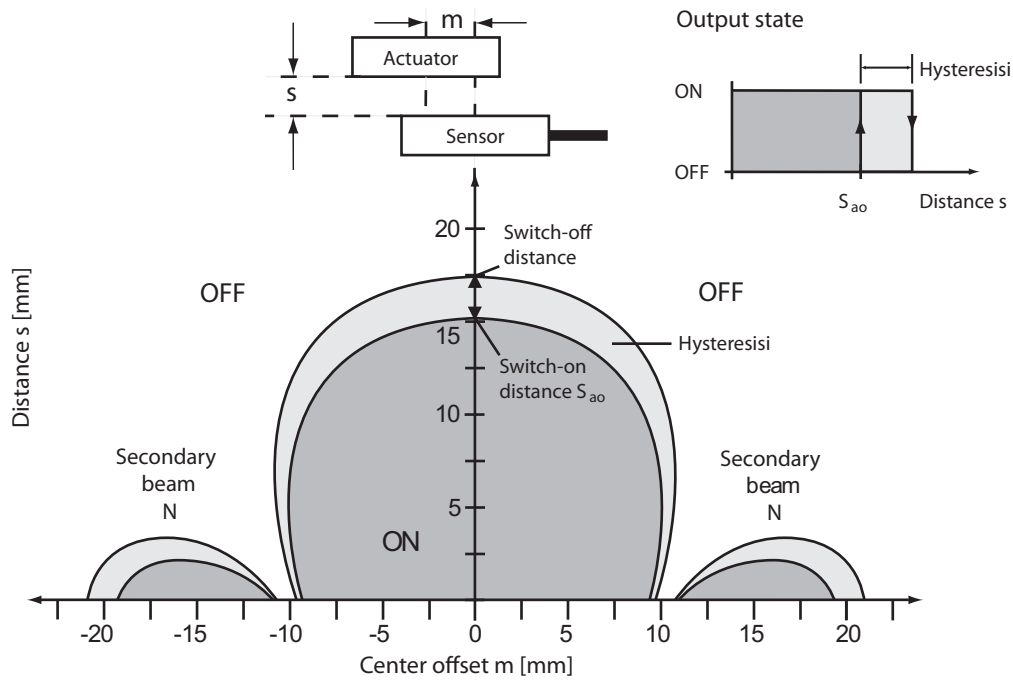
AMBIENT DATA

Enclosure rating	IP20
Ambient operating temperature	0 °C ... +55 °C
Storage temperature	0 °C ... +70 °C

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
cULus certificate	✓
Third party certificate	✓

RESPONSE RANGE



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6029947



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SICK AT A GLANCE

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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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