



# RE300-DA10P

RE300

NON-CONTACT SAFETY SWITCHES

**SICK**  
Sensor Intelligence.

## Ordering information



Type	part no.
RE300-DA10P	6025079

Other models and accessories → [www.sick.com/RE300](http://www.sick.com/RE300)



## Detailed technical data

### Features

<b>System part</b>	Sensor with actuator
<b>Sensor principle</b>	Magnetic
<b>N/O contacts</b>	1
<b>N/C contacts</b>	1
<b>Assured switch on distance <math>S_{ao}</math></b>	5 mm
<b>Assured switch off distance <math>S_{ar}</math></b>	15 mm
<b>Active sensor surfaces</b>	2
<b>Actuation directions</b>	5

### Safety-related parameters

<b><math>B_{10d}</math> parameter</b>	$2 \times 10^7$ switching cycles (with small load)
<b>Type</b>	Type 4 (EN ISO 14119)
<b>Actuator coding level</b>	Low coding level (EN ISO 14119)
<b>Safe state in the event of a fault</b>	The switch has no internal fault detection and is unable to assume a safe state in the event of a fault. Fault detection is performed by the connected safety-related logic unit.

### Functions

<b>Safe series connection</b>	None, only individual wiring (with diagnostics)
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### Interfaces

<b>Connection type</b>	Cable
Length of cable	10 m
Cable material	PVC

### Electronics

<b>Type of output</b>	Reed contacts
<b>Switching voltage</b>	$\leq 30$ V DC
<b>Switching current</b>	$\leq 30$ mA

### Mechanics

<b>Design</b>	Rectangular
<b>Dimensions (W x H x D)</b>	19 mm x 82 mm x 19 mm
<b>Weight</b>	+ 0.322 kg

<b>Housing material</b>	ABS shape
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#### Ambient data

<b>Enclosure rating</b>	IP67
<b>Ambient operating temperature</b>	-10 °C ... +55 °C
<b>Storage temperature</b>	-25 °C ... +70 °C
<b>Vibration resistance</b>	10 Hz ... 55 Hz, 0.35 mm (IEC 60068-2-6)
<b>Shock resistance</b>	30 g (IEC 60068-2-29)

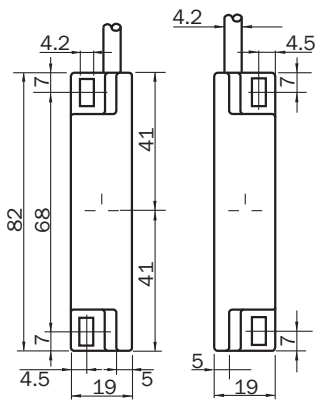
#### Certificates

<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>cULus certificate</b>	✓
<b>TÜV approval</b>	✓
<b>TÜV approval annex</b>	✓

#### Classifications

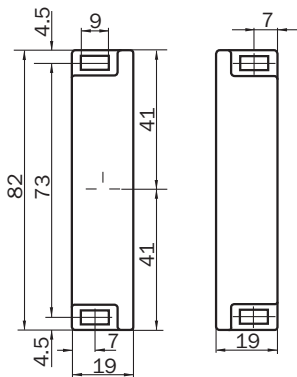
<b>ECLASS 5.0</b>	27272402
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<b>ECLASS 6.2</b>	27272402
<b>ECLASS 7.0</b>	27272402
<b>ECLASS 8.0</b>	27272402
<b>ECLASS 8.1</b>	27272402
<b>ECLASS 9.0</b>	27272402
<b>ECLASS 10.0</b>	27272402
<b>ECLASS 11.0</b>	27272402
<b>ECLASS 12.0</b>	27274401
<b>ETIM 5.0</b>	EC002544
<b>ETIM 6.0</b>	EC002544
<b>ETIM 7.0</b>	EC002544
<b>ETIM 8.0</b>	EC002544
<b>UNSPSC 16.0901</b>	39122205

Dimensional drawing sensor



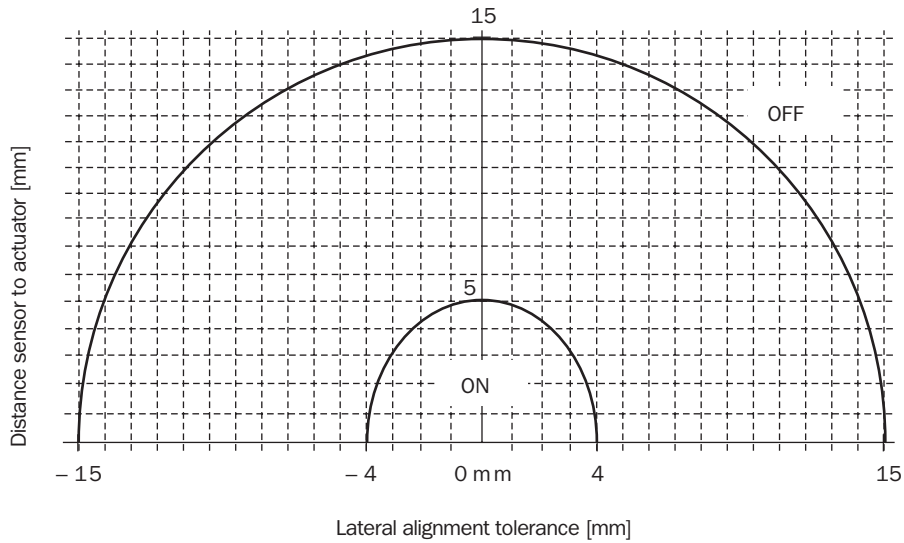
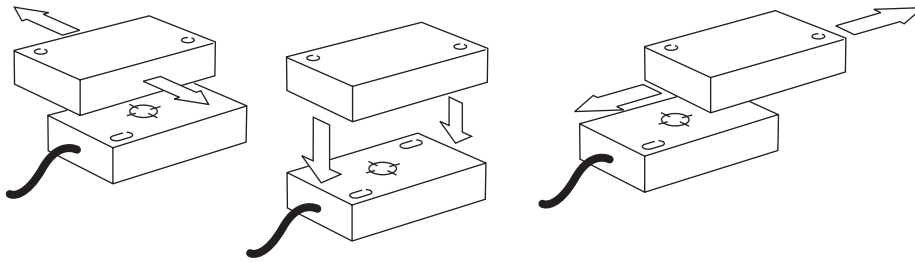
Dimensions in mm (inch)

Dimensional drawing Actuator

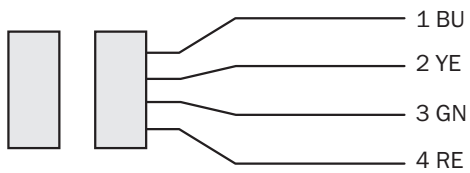


Dimensions in mm (inch)

### Response range

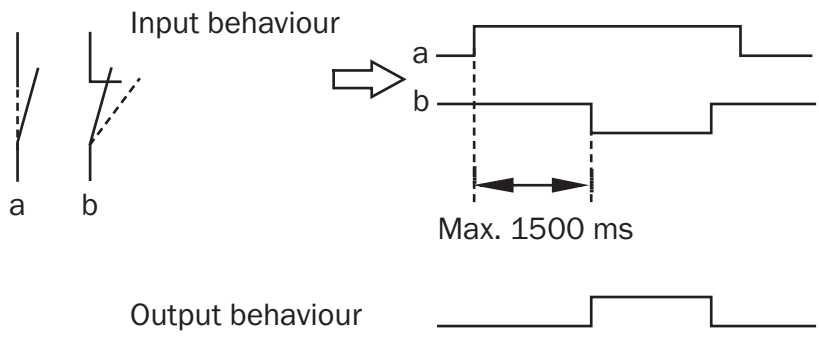


### Pinouts



1 BU	NO contact
4 RE	
2 YE	NC contact
3 GN	

Sensor timing



## 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)