

i150-RP223

**SAFETY COMMAND DEVICES** 





## Ordering information

Туре	part no.
i150-RP223	6024884

Other models and accessories → www.sick.com/i150RP



#### Detailed technical data

#### **Features**

Positive action N/C contacts	2
N/O contacts	2
Actuation force (deflection)	125 N (300 mm)
Actuation frequency	≤ 3,600 /h
Actuation directions	1
Cord length	≤ 75 m

## Safety-related parameters

B <sub>10d</sub> parameter	2 x 10 <sup>6</sup> switching cycles (with small load)	
Safe state in the event of a fault	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**

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

Connection type	Cable gland, 3 x M20
Conductor cross section	≤ 1.5 mm²

#### Electronics

Switching principle	Slow action switching element
Positive action N/C contacts	2
N/O contacts	2
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 2 A (24 V DC)
Rated insulation voltage U <sub>i</sub>	250 V
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V
Short-circuit protection	Т6

Switching voltage	≥ 5 V DC
Switching current (switching voltage)	5 mA (5 V DC)

## Mechanics

Dimensions	69 mm x 203 mm x 85 mm
Weight	0.84 kg
Housing material	Die cast lightweight metal
Surface treatment	Varnished
Mechanical life	1 x 10 <sup>6</sup> switching cycles

#### Ambient data

Enclosure rating	IP65 (IEC 60529)
Ambient operating temperature	-25 °C +80 °C
Storage temperature	-25 °C +80 °C

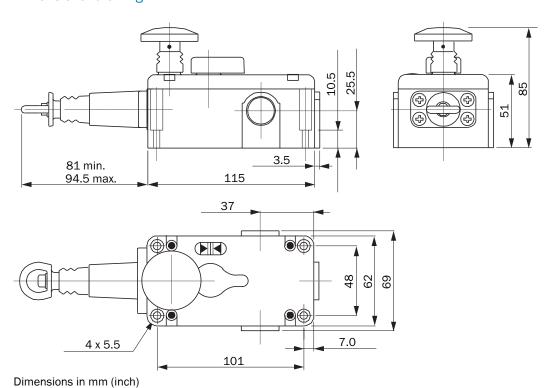
## Certificates

EU declaration of conformity	✓
UK declaration of conformity	1
China RoHS	✓
cULus certificate	✓
Third party certificate	1

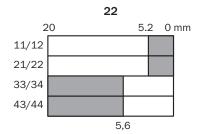
#### Classifications

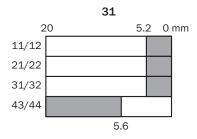
ECLASS 5.0	27270601
ECLASS 5.1.4	27270690
ECLASS 6.0	27270607
ECLASS 6.2	27270607
ECLASS 7.0	27270607
ECLASS 8.0	27270607
ECLASS 8.1	27270607
ECLASS 9.0	27270607
ECLASS 10.0	27270607
ECLASS 11.0	27270607
ECLASS 12.0	27270607
ETIM 5.0	EC002033
ETIM 6.0	EC002033
ETIM 7.0	EC002033
ETIM 8.0	EC002033
UNSPSC 16.0901	39121545

#### Dimensional drawing



Actuator travel diagram Contact action over the entire actuator withdrawl distance (full insertion = 0 mm)





- ☐ Contacts open
- Contacts closed

# Switching elements

	Rope stack	Rope tensioned	Rope pulled
	$\sim$	<b></b>	<u></u>
Switching element 22	Ŷ 43 o o o 44 33 o o o 34 ⊖ 21 e o 22 ⊖ 11 e o 12	9 43 0 0 44 33 0 0 34 21 0 0 22 11 0 0 12	Υ 43 σ <sup>1</sup> ο 44 33 σ <sup>1</sup> ο 34 21 <b>οιο</b> 22 11 <b>οιο</b> 12
Switching element 31	Ŷ 43 0 0 44 ⊖ 31 010 32 ⊖ 21 010 22 ⊖ 11 010 12	9 43 0 0 44 31 alo 32 21 alo 22 11 alo 12	γ 43 σ 44 31 ο 32 21 ο 22 11 ο 12

#### Switching element 22:

2 postive action N/C contacts + 2 N/O contact

#### Switching element 31:

3 postive action N/C contacts + 1 N/O contact

# 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."

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