

i150-RP224 i150RP

SAFETY COMMAND DEVICES





Ordering information

Туре	part no.
i150-RP224	1064511

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



Detailed technical data

Features

Positive action N/C contacts	2
N/O contacts	0
Actuation force (deflection)	125 N (300 mm)
Actuation frequency	≤ 3,600 /h
Actuation directions	1
Cord length	≤ 75 m

Safety-related parameters

B _{10d} parameter	2 x 10 ⁶ 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 With Flexi Loop (with diagnostics)	
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Interfaces

Connection type		Plug connector, M12, 4-pin
	Coupling nut material	Nickel-plated brass

Electronics

Switching principle	Slow action switching element
Positive action N/C contacts	2
N/O contacts	0
Usage category	DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	2 A (24 V DC)
Rated insulation voltage U _i	32 V
Rated impulse withstand voltage U _{imp}	1,500 V
Short-circuit protection	2 A
Switching voltage	≥ 5 V DC

Switching current (switching voltage) 5 mA (5 V DC)
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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 ⁶ switching cycles

Ambient data

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

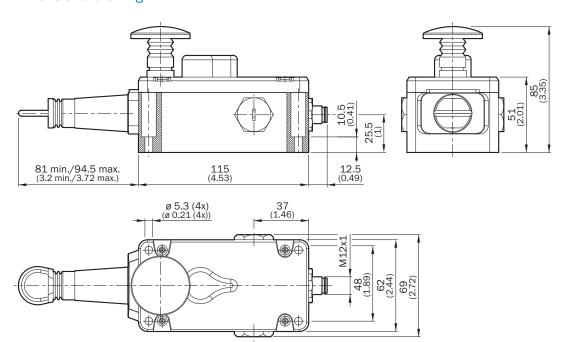
Certificates

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

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



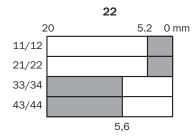
Dimensions in mm (inch)

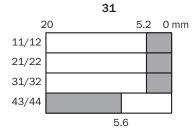
Pinouts



1	positive action N/C
2	contacts 11/12
3	positive action N/C
4	contacts 21/22

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
	<u> </u>		<u> </u>
Switching element 22	Ŷ 43 o o o 44 33 o o o 34 ⊕ 21 o o o 22 ⊕ 11 o o o 12	43 0 0 44 33 0 0 34 21 0 0 22 11 0 0 12	Υ 43 σ ¹ ο 44 33 σ ¹ ο 34 21 <u>οιο</u> 22 11 <u>οιο</u> 12
Switching element 31	P 43 o o o o o o o o o o o o o o o o o o o	9 43 0 0 44 31 0 0 32 21 0 0 22 11 0 0 12	Υ 43 σ ¹ σ 44 31 <u>οιο</u> 32 21 <u>οιο</u> 22 11 <u>οιο</u> 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

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