i150-RP313

i150RP

SAFETY COMMAND DEVICES

Ordering information

Type	Part no.
i150-RP313	6024883

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

Detailed technical data

Features

Number of positive action N/C contacts	3
Number of N/O contacts	1
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	2×10^{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	None, only individual wiring (with diagnostics)

Interfaces

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

Electrical data

Switching principle	Slow action switching element
Number of positive action N/C contacts	3
Number of N/O contacts	1
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_i	250 V
Rated impulse withstand voltage U_{imp}	2,500 V

Short-circuit protection	T6
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	≥ 5 mA (5 V DC)

Mechanical data

Dimensions	69 mm x 203 mm x 85 mm
Weight	0.84 kg
Housing material	Die cast lightweight metal
Surface treatment	Varnished
Mechanical life	1×10^{6} switching cycles

Ambient data

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

Classifications

| eCl@ss 5.0	27270601
eCl@ss 5.1.4	27270690
eCl@ss 6.0	27270607
eCl@ss 6.2	27270607
eCl@ss 7.0	27270607
eCl@ss 8.0	27270607
eCl@ss 8.1	27270607
eCl@ss 9.0	27270607
eCl@ss 10.0	27270607
eCl@ss 11.0	27270607
eCl@ss 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))
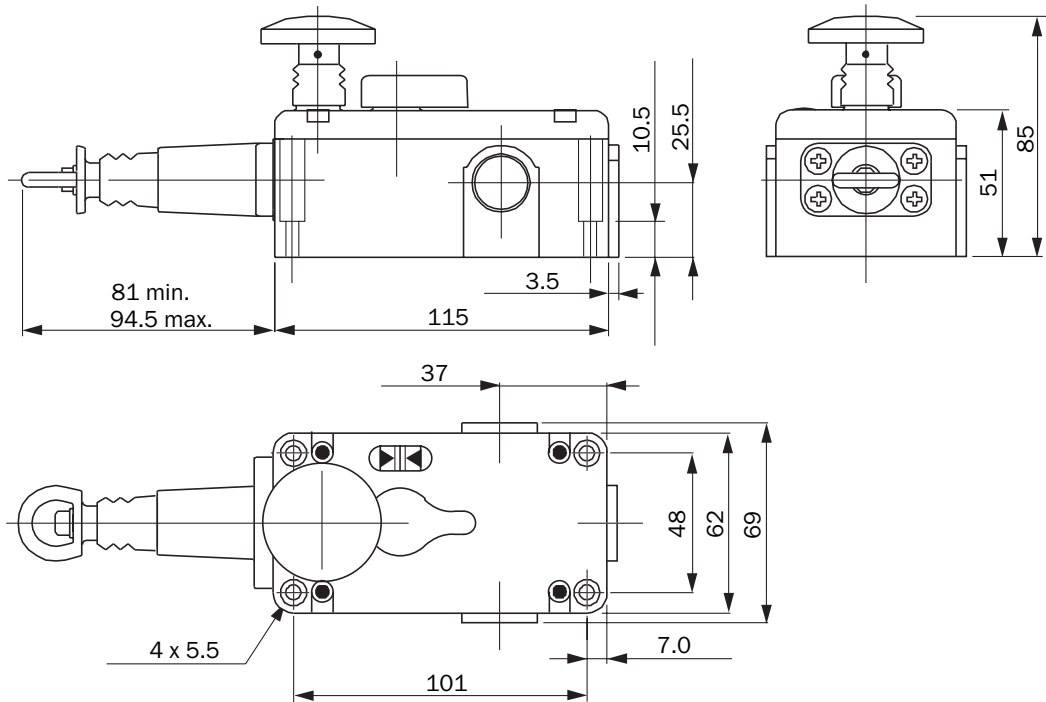
Actuator travel diagram

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

22

31
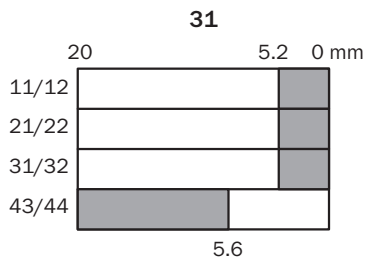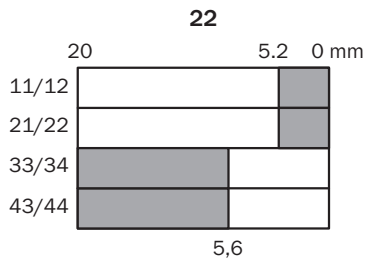
☐ Contacts open

▨ Contacts closed

Switching elements

	Rope stack	Rope tensioned	Rope pulled
Switching element 22	43 — 44 33 — 34 21 — 22 11 — 12	43 — 44 33 — 34 21 — 22 11 — 12	43 — 44 33 — 34 21 — 22 11 — 12
Switching element 31	43 — 44 31 — 32 21 — 22 11 — 12	43 — 44 31 — 32 21 — 22 11 — 12	43 — 44 31 — 32 21 — 22 11 — 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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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.

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