

i110-RA223 i110R

ELECTRO-MECHANICAL SAFETY SWITCHES





Ordering information

Туре	Part no.
i110-RA223	6025108

Other models and accessories → www.sick.com/i110R



Detailed technical data

Features

Number of positive action N/C contacts	2
Number of N/O contacts	2
Actuation frequency	≤ 6,000 /h
Actuation torque	≥ 0.34 Nm
Actuation directions	4
Approach speed	0.1 m/min 15 m/min
Positive break angle	44°

Safety-related parameters

B _{10d} parameter	2 x 10 ⁶ switching cycles (with small load)
Туре	Type 1 (EN ISO 14119)
Actuator coding level	Uncoded (EN ISO 14119)
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, 1 x M20
Conductor cross section	≤ 2.5 mm²

Electrical data

Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 3 A (24 V DC)
Rated insulation voltage U _i	250 V
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V AC
Short-circuit protection	F15

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

Mechanical data

Weight	0.52 kg
Housing material	Zinc diecast
Surface treatment	Varnished
Mechanical life	10 x 10 ⁶ switching cycles

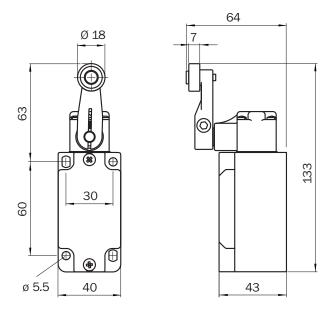
Ambient data

Enclosure rating	IP66 (IEC 60529)
Ambient operating temperature	-25 °C +80 °C
Storage temperature	-25 °C +80 °C

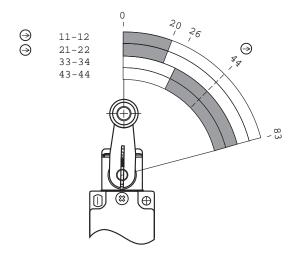
Classifications

eCl@ss 5.0	27272601
eCl@ss 5.1.4	27272601
eCl@ss 6.0	27272601
eCl@ss 6.2	27272601
eCl@ss 7.0	27272601
eCl@ss 8.0	27272601
eCl@ss 8.1	27272601
eCl@ss 9.0	27272601
eCl@ss 10.0	27272601
eCl@ss 11.0	27272601
eCl@ss 12.0	27272601
ETIM 5.0	EC001829
ETIM 6.0	EC001829
ETIM 7.0	EC001829
ETIM 8.0	EC001829
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))



Actuator travel diagram



Contacts open

Contacts closed

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