Online data sheet

i110-RA313

i110R

ELECTRO-MECHANICAL SAFETY SWITCHES

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
i110-RA313	6025107

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

Detailed technical data

Features

Number of positive action N/C contacts	3
Number of N/O contacts	1
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)
Type	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.

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 U_{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

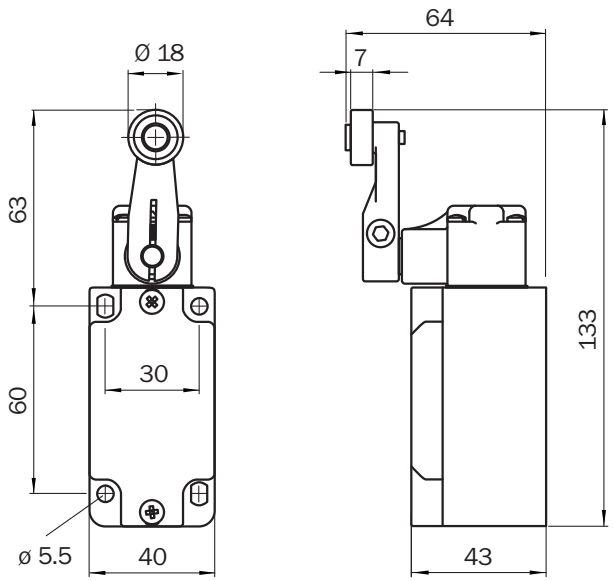
Ambient data

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

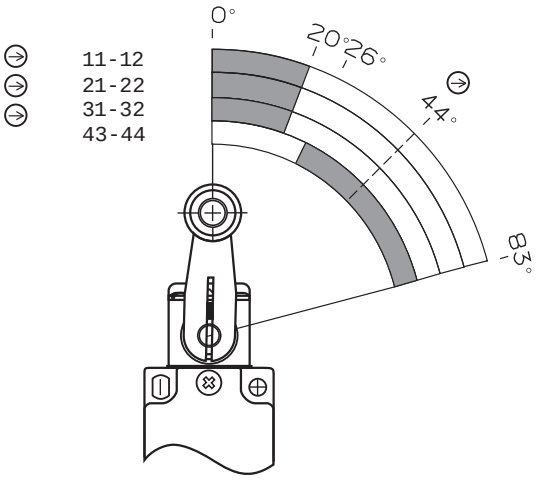
Classifications

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
ETIM 5.0	EC001829
ETIM 6.0	EC001829
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))



Actuator travel diagram



Contacts open

Contacts closed

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