



Ordering information

Type	Part no.
IN40-D0303K	6027391

Other models and accessories → www.sick.com/IN4000_Standard



Detailed technical data

Features

Sensor principle	Inductive
Number of safe outputs	1
Switching delay from state change	T ₂ + 20 ms ¹⁾
Enable zone	3 mm ... 6 mm ²⁾
Safe switch off distance S_{ar}	15 mm ²⁾
Actuation directions	5
Active sensor surfaces	1
Monitoring time minimum dwell time	≥ 0.2 s

¹⁾ During this time the output is switched off (Logical "0"), see response range.

²⁾ Dependent on material. The indicated values refer to steel ST37.

Safety-related parameters

Safety integrity level	SIL3 (IEC 61508)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
PFH_D (mean probability of a dangerous failure per hour)	1.33 x 10 ⁻⁹ (EN ISO 13849)
T_M (mission time)	10 years (EN ISO 13849) ¹⁾ 20 years (EN ISO 13849) ²⁾
Type	Type 3 (EN ISO 14119)
Actuator coding level	Uncoded (EN ISO 14119)
Classification in compliance with IEC/EN 60947-5-3	PDF-M

¹⁾ At -25 °C ... +70 °C and 5 % ... 95 % relative air humidity.

²⁾ At +10 °C ... +40 °C and 5 % ... 70 % relative air humidity.

Functions

Cascading	✓
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Interfaces

Connection type	Plug connector, M12, 4-pin
Power indication	✓
Status display	✓

Electrical data

Protection class	III (EN 50178)
Supply voltage V_s	24 V DC (19.2 V DC ... 30 V DC)
Power consumption	15 mA
Type of output	Semiconductor, pulsed

Mechanical data

Design	Cylindrical
Housing diameter	M18
Weight	0.06 kg
Housing material	V4A (housing), PBT (cover)
Installation type	Non-flush

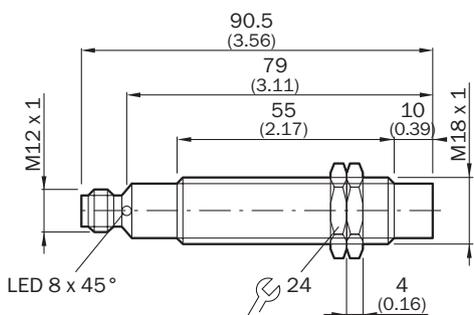
Ambient data

Enclosure rating	IP69K (IEC 60529)
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +70 °C
Vibration resistance	10 Hz ... 55 Hz, 1 mm (EN 60947-5-3)
Shock resistance	30 g, 11 ms (EN 60947-5-3)

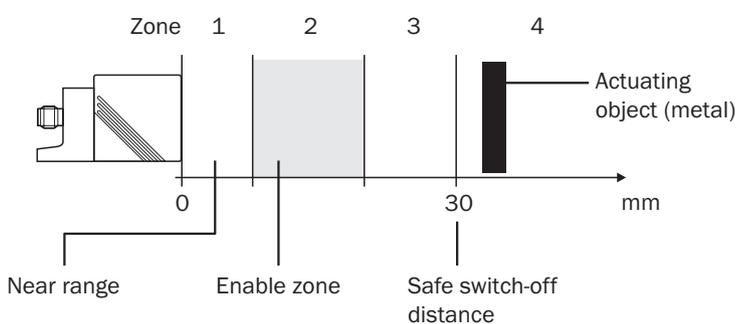
Classifications

ECl@ss 5.0	27272401
ECl@ss 5.1.4	27272401
ECl@ss 6.0	27272401
ECl@ss 6.2	27272401
ECl@ss 7.0	27272401
ECl@ss 8.0	27272401
ECl@ss 8.1	27272401
ECl@ss 9.0	27272401
ETIM 5.0	EC001818
ETIM 6.0	EC001818
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))

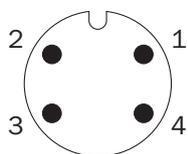


Response range



Connection diagram

Sensor connections



SICK AT A GLANCE

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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.

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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