

EXS-06D6203B020

deTec

SAFETY LIGHT CURTAINS





Illustration may differ

Ordering information

deTec4 Core Ex

Note	Resolution	Scanning range	Protective field height	System part	Туре	Part no.
Sensor preassembled in explosion-proof enclosure including connecting cable (30 m, 5-wire, flying leads). Depending on national regulations and requirements, a cable gland may have to be installed. The cable gland is available as an accessory.	30 mm	10 m	600 mm	Sender	EXS- 06D6203B020	1068407

Sensor pre-assembled in explosion-proof enclosure including connecting cable (30 m, 5-wire, flying leads). Depending on national regulations and requirements, a cable gland may have to be installed. The cable gland is available as an accessory.

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



Detailed technical data

Features

Sub product family	deTec4 Core Ex
Application	Explosive areas
Ex-approvals	ATEX for gas: II 2 G Ex db IIB T6 ATEX for dust: II 2 D Ex tb IIIC T56°C Db IP6X NFPA 70/NEC 500 Class I, Div. 1, Groups C and D NFPA 70/NEC 500 Class II, Div. 1, Groups E, F and G NFPA 70/NEC 500 Class III, Div. 1
System part	Sender
Compatible receiver	1068406
Resolution	30 mm
Scanning range	10 m
Protective field height	600 mm

Synchronization	Optical synchronisation
Items supplied	Sender in explosion-proof enclosure with connecting cable, 30 m 2 handles including screws

Safety-related parameters

Туре	Type 4 (IEC 61496-1)
Safety integrity level	SIL 3 (IEC 61508)
Category	Category 4 (ISO 13849-1)
Performance level	PL e (ISO 13849-1)
$\ensuremath{PFH_{D}}$ (mean probability of a dangerous failure per hour)	3.7×10^{-9}
T _M (mission time)	20 years (ISO 13849-1)
Safe state in the event of a fault	At least one OSSD is in the OFF state.

Functions

Protective operation	√
Automatic calibration of the protective fi width	eld ✓

Interfaces

System connection	Connecting cable, 30 m, flying leads, 5-wire
Length of cable	30 m
Cable diameter	7.4 mm
Conductor cross section	0.75 mm ²
Display elements	LEDs

Electrical data

Protection class	III (IEC 61140)
Supply voltage V_S	24 V DC (19.2 V 28.8 V)
Ripple	≤ 10 %
Power consumption typical	0.91 W (DC)

Mechanical data

Dimensions	See dimensional drawing	
Housing cross-section	161.8 mm x 142.1 mm	
Housing material	Aluminum cast/AlSi7Mg0.6	

Ambient data

Enclosure rating	IP65 (IEC 60529) IP66 (IEC 60529)
Ambient operating temperature	-20 °C +55 °C
Storage temperature	-30 °C +70 °C
Air humidity	15 % 95 %, Non-condensing
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 60068-2-6)
Shock resistance	10 g, 16 ms (IEC 60068-2-27)

Other information

Wave length	850 nm
Type of light	Near-infrared (NIR), invisible

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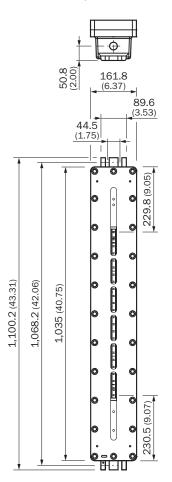
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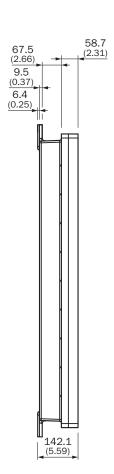
Classifications

ECLASS 5.0	27272704
ECLASS 5.1.4	27272704
ECLASS 6.0	27272704
ECLASS 6.2	27272704
ECLASS 7.0	27272704
ECLASS 8.0	27272704
ECLASS 8.1	27272704
ECLASS 9.0	27272704
ECLASS 10.0	27272704
ECLASS 11.0	27272704
ECLASS 12.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	46171620

Dimensional drawing (Dimensions in mm (inch))

deTec4 Core Ex, 600 mm





Recommended accessories

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

	Brief description	Туре	Part no.		
Test and mon	Test and monitoring tools				
	30 mm diameter, 250 mm length	Test rod 30 mm	2022602		
Terminal and alignment brackets					
-	2 pieces, alignment bracket for explosion-proof enclosure	BEF-1SHABRST2	2072525		

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	Brief description	Туре	Part no.
Others			
The state of the s	 Description: Cable gland for the European market Note: Cable gland for the European market 	Cable gland	5329001
Safety switching amplifier			
	 Applications: Evaluation unit Compatible sensor types: Safety sensors with OSSDs Connection type: Front connector with spring terminals Restart interlock: yes External device monitoring (EDM): Integrated Outputs: 2 enabling current paths (safe), 2 application diagnostic outputs (not safe), 1 test pulse output (not safe) Housing width: 18 mm 	RLY3-OSSD200	1085344
	 Applications: Evaluation unit Compatible sensor types: Safety sensors with OSSDs Connection type: Front connector with spring terminals Restart interlock: yes External device monitoring (EDM): Integrated Outputs: 3 enabling current paths (safe), 2 application diagnostic outputs (not safe), 1 test pulse output (not safe) Housing width: 18 mm 	RLY3-OSSD300	1099969

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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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