

SAFETY LIGHT CURTAINS



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Illustration may differ

Ordering information

deTec4 Core Ex

Note	Resolution	Scanning range	Protective field height	System part	Туре	Part no.
Sensor pre- assembled in explo- sion-proof enclosure including connecting cable (30 m, 5-wire, fly- ing leads). Depending on national regulations and require- ments, a cable gland may have to be installed. The cable gland is avail- able as an accessory.	30 mm	10 m	1,200 mm	Sender	EXS- 12D6603B020	1068413

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	1068412
Resolution	30 mm
Scanning range	10 m
Protective field height	1,200 mm

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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)	
$\ensuremath{PFH}_{\ensuremath{D}}$ (mean probability of a dangerous failure per hour)	3.7 x 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	1	
Automatic calibration of the protective field width	✓	
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	1.1 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	

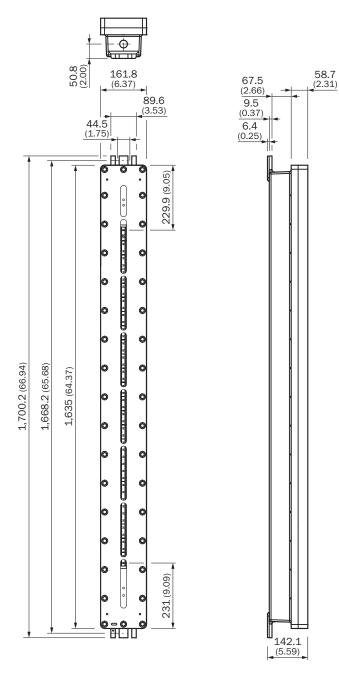
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Classifications

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, 1,200 mm



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Recommended accessories

Other models and accessories -> www.sick.com/deTec

	Brief description	Туре	Part no.		
Test and monitoring tools					
	30 mm diameter, 250 mm length	Test rod 30 mm	2022602		
Terminal and	d alignment brackets				
a contraction of the second	2 pieces, alignment bracket for explosion-proof enclosure	BEF-1SHABRST2	2072525		
Others					
C	 Description: Cable gland for the European market Note: Cable gland for the European market 	Cable gland	5329001		
Safety switc	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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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."

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