

SAFETY LIGHT CURTAINS



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Illustration may differ

Ordering information						
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, 8-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	25.2 m	1,200 mm	Sender	EXS- 12D6613A020	1097711

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



Detailed technical data

Features Sub product family deTec4 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 Resolution 30 mm Scanning range 25.2 m **Protective field height** 1,200 mm Synchronization Optical synchronisation Integrated laser alignment aid 1 **Items supplied** Sender in explosion-proof enclosure with connecting cable, 30 m 2 handles including screws

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Safety-related parameters

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)	15.3 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	✓
Automatic calibration of the protective field width	✓
Beam coding	✓
Interfaces	
System connection	Connecting cable, 30 m, flying lead, 8-wire
Cable diameter	5.8 mm
Conductor cross section	0.25 mm ²
Extension connection	-
Configuration method	DIP switch on system plug
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	1.68 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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Integrated laser alignment aid	1
Laser class	1
Wave length	650 nm
Type of light	Visible red light
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

Recommended accessories

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

	Brief description	Туре	Part no.	
Alignment aid	s			
Ŵ	Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam!, 19 mm x 67.3 mm x 66.9 mm	AR60	1015741	
Test and mon	itoring tools			
	30 mm diameter, 250 mm length	Test rod 30 mm	2022602	
Terminal and	alignment brackets			
a con	2 pieces, alignment bracket for explosion-proof enclosure	BEF-1SHABRST2	2072525	
Safety switching amplifier				
	 Applications: Output expansion module for OSSDs Compatible sensor types: Safety sensors with OSSDs Connection type: Front connector with spring terminals Restart interlock: no 	RLY3-OSSD100	1085343	

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Brief description	Туре	Part no.
 External device monitoring (EDM): Via path Outputs: 2 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe) Housing width: 18 mm 		
 Applications: Output expansion module for OSSDs Compatible sensor types: Safety sensors with OSSDs Connection type: Front connector with spring terminals Restart interlock: no External device monitoring (EDM): Via path Outputs: 4 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe), 1 signaling current path (not safe) Housing width: 28 mm 	RLY3-OSSD400	1099971

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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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