



C2C-EB06030A10000

deTec

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

deTec2 Core IP69K

Resolution	Scanning range	Protective field height	System part	Type	Part no.
30 mm	12.5 m	600 mm	Receiver	C2C-EB06030A10000	1219514

Completely pre-installed including connecting cable, 15 m, flying lead, 5-wire

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

Detailed technical data

Features

Application	Areas with high pressure cleaning (hygiene, food)
System part	Receiver
Compatible sender	1219513
Resolution	30 mm
Scanning range	12.5 m
Protective field height	600 mm
Response time	10 ms
No blind zones	Yes
Synchronization	Optical synchronisation
Items supplied	Receiver in IP69K protective housing with connecting cable, 15 m Test rod with diameter corresponding to the resolution of the safety light curtain Safety instruction Mounting instructions Operating instructions for download

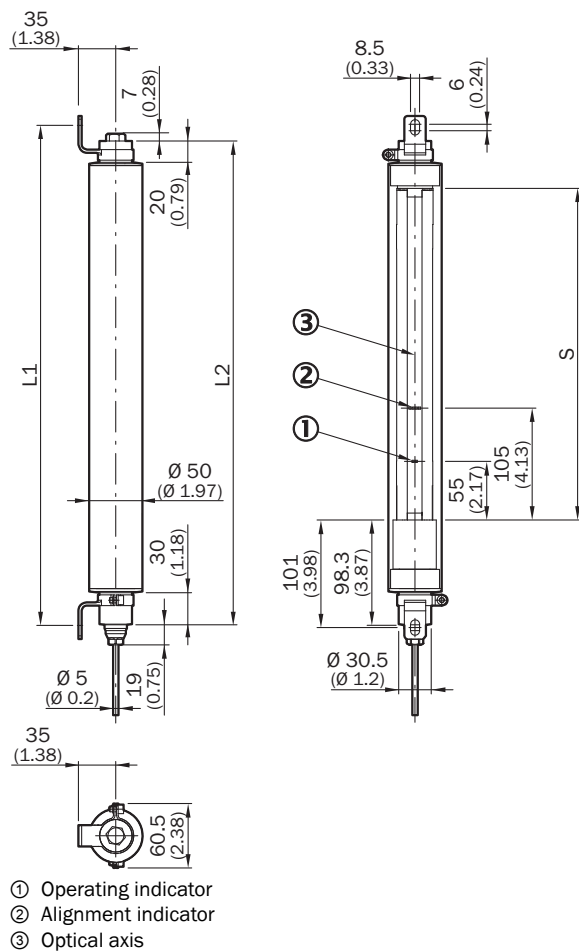
Safety-related parameters

Type	Type 2 (IEC 61496-1)
Safety integrity level	SIL1 (IEC 61508) SILCL1 (IEC 62061)
Category	Category 2 (ISO 13849-1)
Performance level	PL c (ISO 13849-1)
PFH_D (mean probability of a dangerous failure per hour)	31×10^{-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.

Classifications

ECI@ss 5.0	27272704
ECI@ss 5.1.4	27272704
ECI@ss 6.0	27272704
ECI@ss 6.2	27272704
ECI@ss 7.0	27272704
ECI@ss 8.0	27272704
ECI@ss 8.1	27272704
ECI@ss 9.0	27272704
ECI@ss 10.0	27272704
ECI@ss 11.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
UNSPSC 16.0901	46171620

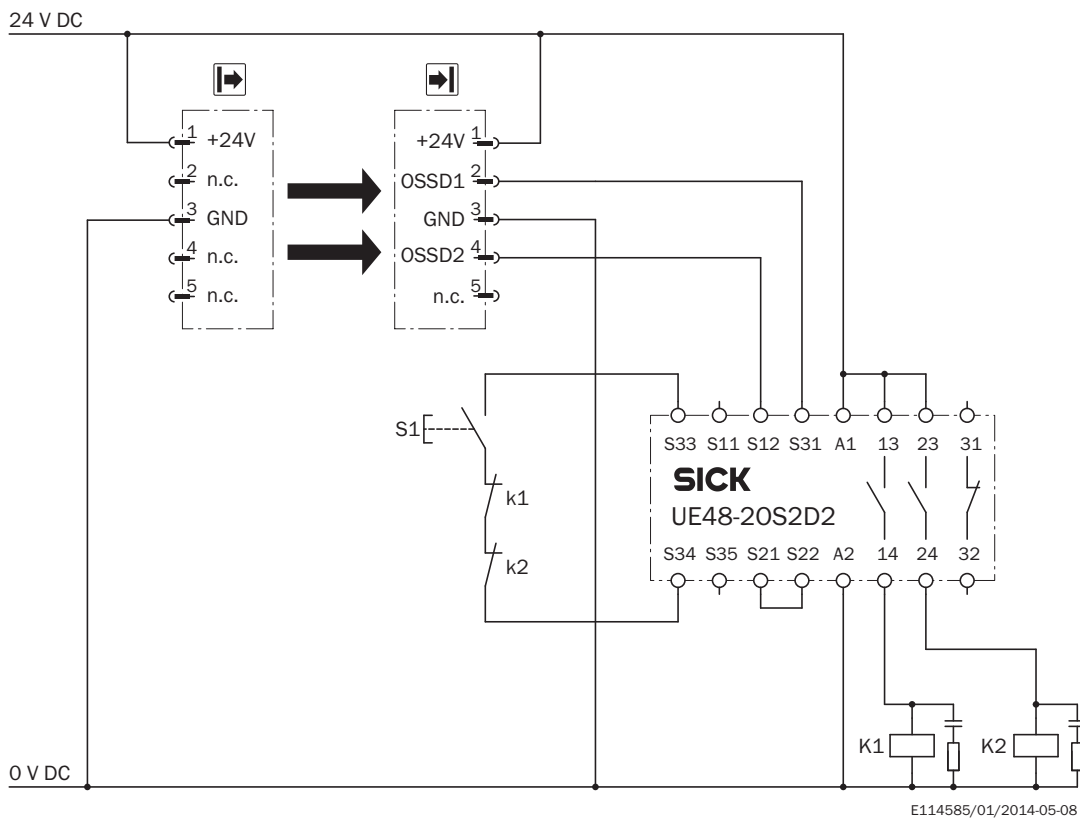
Dimensional drawing (Dimensions in mm (inch))



	S	L1	L2
300	311	469	454
450	461	619	604
600	611	769	754
750	761	919	904
900	911	1,069	1,054
1,050	1,061	1,219	1,204
1,200	1,211	1,369	1,354
1,350	1,361	1,519	1,504
1,500	1,511	1,669	1,654
1,650	1,661	1,819	1,804
1,800	1,811	1,969	1,954

Connection diagram

deTec2 Core IP69K safety light curtain to UE48-20S safety relay



Task

Connection of a deTec4 Core IP69K or deTec2 Core IP69K safety light curtain to a UE48-20S.

Operating mode: With restart interlock and external device monitoring

Mode of operation

When the light path is clear, the OSSD1 and OSSD2 outputs carry voltage. When K1 and K2 are in a fault-free de-energized position, the system can be switched on and waits for an input signal/switch-on signal. The UE48-20S is switched on by pressing and then releasing the S1 pushbutton. The outputs (contacts 13 - 14 and 23 - 24) switch the K1 and K2 contactors on. When one or more light beams are interrupted, the OSSD1 and OSSD2 outputs switch off the UE48-20S. Contactors K1 and K2 are switched off.

Fault analysis

Cross-circuits and short-circuits of the OSSDs are recognized and lead to the locking state (lock-out). A malfunction with one of the K1 or K2 contactors is detected. The shut-down function is retained. In the event of manipulation (e.g., jamming) of the S1 push-button, the UE48-20S will not re-enable the output current circuits.

Comments

1) Output circuits: These contacts must be incorporated into the control such that the dangerous state is brought to an end if the output circuit is open. For categories 4 and 3, they must be incorporated on two channels (x, y paths). Single-channel incorporation into the control (z path) is only possible with a single-channel control and taking the risk analysis into account.

Recommended accessories

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

Brief description		Type	Part no.
Terminal and alignment brackets			
	2 pieces, Stainless steel support bracket, stainless steel 1.4350	BEF-2AAAADES2	2026849
	4 pieces, Stainless steel bracket, rotatable, stainless steel 1.4350, stainless steel 1.4301	BEF-2SMMEAES4	2023708
	4 pieces, Reinforced stainless steel bracket, rotatable, stainless steel 1.4350, stainless steel 1.4301	BEF-2SMMVAES4	2026850

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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.”

WORLDWIDE PRESENCE:

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