



# deTec4 Set 14/450

deTec

SAFETY LIGHT CURTAINS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
deTec4 Set 14/450	1103362

**Included in delivery:** C4P-SA04511A00 (1), C4P-EA04511C00 (1), BEF-1SHABPKU4 (1), Protective cap, M12 for female connector (2), SP1-1100 (1), SP2-2100 (1)

Other models and accessories → [www.sick.com/deTec](http://www.sick.com/deTec)

### Detailed technical data

#### Features

<b>Product version</b>	deTec4
<b>Application</b>	Normal industrial environment
<b>System part</b>	Set
<b>Resolution</b>	14 mm
<b>Scanning range</b>	20 m
<b>Protective field height</b>	450 mm
<b>Response time</b>	12 ms (Uncoded) 19 ms (code 1 or code 2)
<b>No blind zones</b>	Yes
<b>Synchronization</b>	Optical synchronization
<b>Integrated laser alignment aid</b>	✓
<b>Items supplied</b>	Sender System plug 1100 Receiver System plug 2100 4 FlexFix brackets 2 protective caps M12 for female connector Test rod with diameter corresponding to the resolution of the safety light curtain Safety instruction Mounting instructions Operating instructions for download

#### Safety-related parameters

<b>Type</b>	Type 4 (IEC 61496-1)
<b>Safety integrity level</b>	SIL 3 (IEC 61508)
<b>Category</b>	Category 4 (ISO 13849-1)
<b>Performance level</b>	PL e (ISO 13849-1)
<b>PFH<sub>D</sub> (mean probability of a dangerous failure per hour)</b>	
Single device	15.3 x 10 <sup>-9</sup>
Cascade with one guest	30.5 x 10 <sup>-9</sup>
Cascade with two guest devices	45.6 x 10 <sup>-9</sup>

<b>T<sub>M</sub> (mission time)</b>	20 years (ISO 13849-1)
<b>Safe state in the event of a fault</b>	At least one OSSD is in the OFF state.

### Functions

<b>Protective operation</b>	✓
<b>Automatic calibration of the protective field width</b>	✓
<b>Beam coding</b>	✓
<b>Restart interlock</b>	✓
<b>External device monitoring (EDM)</b>	✓
<b>Cascading</b>	✓
<b>Smart presence detection</b>	✓
<b>Reduced resolution</b>	✓
<b>Dynamic protective field width during operation</b>	✓
<b>Differentiation between person and material</b>	
2-signal muting	✓
Smart Box Detection	✓

### Interfaces

<b>System connection</b>	Plug, M12, 5-pin
Length of cable	200 mm
Cable diameter	5 mm
<b>Extension connection</b>	Female connector M12, 5-pin
Length of cable	150 mm
Cable diameter	5 mm
<b>Configuration method</b>	DIP switch on system plug
<b>Display elements</b>	LEDs
<b>Display of the synchronization status of the upper and lower beams</b>	✓
<b>Application diagnostic output (ADO)</b>	✓
<b>IO-Link</b>	✓
<b>Near Field Communication (NFC)</b>	✓

### Electronics

<b>Protection class</b>	III (IEC 61140)
<b>Supply voltage V<sub>S</sub></b>	24 V DC (19.2 V ... 28.8 V)
<b>Ripple</b>	≤ 10 %
<b>Output signal switching devices (OSSDs)</b>	
Type of output	2 PNP semiconductors, short-circuit protected, cross-circuit monitored <sup>1)</sup>
ON state, switching voltage HIGH	24 V DC (V <sub>S</sub> - 2.25 V DC ... V <sub>S</sub> )
OFF state, switching voltage LOW	≤ 2 V DC
Current-carrying capacity per OSSD	≤ 500 mA

<sup>1)</sup> Applies to the voltage range between -30 V and +30 V.

Application diagnostic output (ADO)	
Type of output	PNP semiconductor, short-circuit protected <sup>1)</sup>
Output voltage HIGH (active)	$\geq V_s - 3 \text{ V}$
Output voltage LOW (deactivated)	High resistance
Output current HIGH (active)	$\leq 100 \text{ mA}$

<sup>1)</sup> Applies to the voltage range between -30 V and +30 V.

### Mechanics

<b>Dimensions</b>	See dimensional drawing
<b>Housing material</b>	Aluminum extruded profile

### Ambient data

<b>Enclosure rating</b>	IP65 (IEC 60529) IP67 (IEC 60529)
<b>Ambient operating temperature</b>	-30 °C ... +55 °C
<b>Storage temperature</b>	-30 °C ... +70 °C
<b>Air humidity</b>	15 % ... 95 %, Non-condensing
<b>Vibration resistance</b>	5 ... 150 Hz, 3,5 mm / 1 g (EN 60068-2-6)
<b>Shock resistance</b>	15 g / 6 ms (EN 60068-2-27)
<b>Class</b>	3M4 (IEC TR 60721-4-3)

### Other information

<b>Wave length</b>	850 nm
<b>Type of light</b>	Near-infrared (NIR), invisible
<b>Integrated laser alignment aid</b>	✓
Laser class	1
Wave length	650 nm
Type of light	Visible red light

### Classifications

<b>ECLASS 5.0</b>	27272704
<b>ECLASS 5.1.4</b>	27272704
<b>ECLASS 6.0</b>	27272704
<b>ECLASS 6.2</b>	27272704
<b>ECLASS 7.0</b>	27272704
<b>ECLASS 8.0</b>	27272704
<b>ECLASS 8.1</b>	27272704
<b>ECLASS 9.0</b>	27272704
<b>ECLASS 10.0</b>	27272704
<b>ECLASS 11.0</b>	27272704
<b>ECLASS 12.0</b>	27272704
<b>ETIM 5.0</b>	EC002549
<b>ETIM 6.0</b>	EC002549
<b>ETIM 7.0</b>	EC002549

<b>ETIM 8.0</b>	EC002549
<b>UNSPSC 16.0901</b>	46171620

Dimensional drawing



Dimensions in mm (inch)

Protective field height	L1	L2
300 (11.81)	313 (12.32)	332 (13.07)
450 (17.72)	463 (18.23)	482 (18.98)
600 (23.62)	613 (24.13)	632 (24.88)
750 (29.53)	763 (30.04)	782 (30.79)
900 (35.43)	913 (35.94)	932 (36.69)
1,050 (41.34)	1,063 (41.85)	1,082 (42.6)
1,200 (47.24)	1,213 (47.75)	1,232 (48.5)
1,350 (53.15)	1,362 (53.62)	1,381 (54.37)
1,500 (59.06)	1,512 (59.53)	1,531 (60.28)
1,650 (64.96)	1,662 (65.43)	1,681 (66.18)
1,800 (70.87)	1,812 (71.34)	1,831 (72.09)
1,950 (76.77)	1,962 (77.24)	1,981 (77.99)

Protective field height	L1	L2
2,100 (82.68)	2,112 (83.15)	2,131 (83.9)

### Dimensional drawing



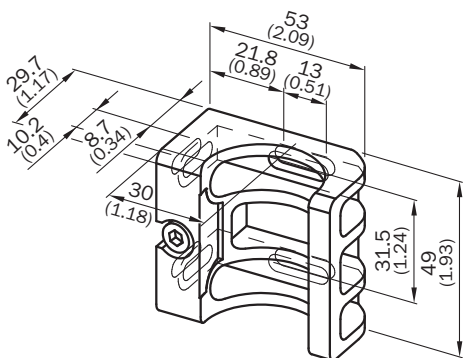
Dimensions in mm (inch)

Dimensional drawing



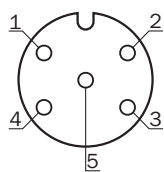
Dimensions in mm (inch)

Dimensional drawing



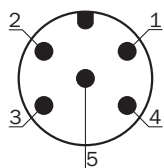
Dimensions in mm (inch)

Pinouts deTec4 extension connection



Pin	Sender	Receiver
1	+24 V Out	+24 V Out
2	N. c.	In1EDMMuting
3	0 V Out	0 V Out
4	Sync-Out	In2RESMuting
5	MFP2	MFP2ADOIO-Link
For details see operating instructions		

Pinouts deTec4 system connection






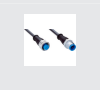
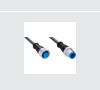
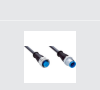
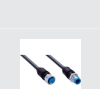
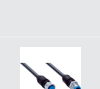


Pin	Sender	Receiver
1	+24 V DC	+24 V DC
2	In2Laser alignment aid button	OSSD1
3	0 V DC	0 V DC
4	In1Laser alignment aid switch	OSSD2
5	MFP1	MFP1
For details see operating instructions		

## Recommended accessories




Other models and accessories → [www.sick.com/deTec](http://www.sick.com/deTec)

	Brief description	Type	part no.
Safety relays			
	<ul style="list-style-type: none"> <li>• <b>Applications:</b> Output expansion module for OSSDs</li> <li>• <b>Compatible sensor types:</b> Safety sensors with OSSDs</li> <li>• <b>Connection type:</b> Front connector with spring terminals</li> <li>• <b>Restart interlock:</b> no</li> <li>• <b>External device monitoring (EDM):</b> Via path</li> <li>• <b>Outputs:</b> 2 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe)</li> <li>• <b>Housing width:</b> 18 mm</li> </ul>	RLY3-OSSD100	1085343
	<ul style="list-style-type: none"> <li>• <b>Applications:</b> Output expansion module for OSSDs</li> <li>• <b>Compatible sensor types:</b> Safety sensors with OSSDs</li> <li>• <b>Connection type:</b> Front connector with spring terminals</li> <li>• <b>Restart interlock:</b> no</li> <li>• <b>External device monitoring (EDM):</b> Via path</li> <li>• <b>Outputs:</b> 4 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe), 1 signaling current path (not safe)</li> <li>• <b>Housing width:</b> 28 mm</li> </ul>	RLY3-OSSD400	1099971
Mounting systems			
	<ul style="list-style-type: none"> <li>• <b>Description:</b> FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned <math>\pm 15^\circ</math>, including M5 screw</li> <li>• <b>Material:</b> Plastic</li> <li>• <b>Details:</b> Plastic</li> <li>• <b>Packing unit:</b> 4 pieces</li> </ul>	BEF-1SHABPKU4	2066614
	<ul style="list-style-type: none"> <li>• <b>Description:</b> QuickFix bracket for 2 devices (e.g. sender and receiver)</li> <li>• <b>Material:</b> Plastic</li> <li>• <b>Details:</b> Plastic</li> <li>• <b>Packing unit:</b> 4 pieces</li> </ul>	BEF-3SHABPKU4	2098710
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Muting arm bracket for deTec safety light curtain or deTem safety multibeam sensor</li> <li>• <b>Packing unit:</b> 1 piece</li> <li>• <b>Suitable for:</b> deTec, deTem</li> </ul>	Muting arm bracket	2106455
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Sensor bracket G6 and P250</li> </ul>	BEF-2KHAAKU1	2113145
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Muting arm, short</li> <li>• <b>Suitable for:</b> deTec, deTem</li> </ul>	Muting arm, short	2111924
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Muting arm, long</li> <li>• <b>Suitable for:</b> deTec, deTem</li> </ul>	Muting arm, long	2111923
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Universal holder for round steel arms and muting arms, for mounting sensors or reflectors</li> </ul>	BEF-KHS-N01	2044953

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"> <li><b>Description:</b> Unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 5-pin, A-coded</li> <li><b>Connection type head B:</b> Female connector, M12, 5-pin, A-coded</li> <li><b>Connection type head C:</b> Male connector, M12, 5-pin, A-coded</li> </ul>	DSC-1205T000025KMC	6030664
	<ul style="list-style-type: none"> <li><b>Description:</b> Unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, A-coded</li> <li><b>Connection type head B:</b> Female connector, M12, 8-pin, A-coded</li> <li><b>Connection type head C:</b> Male connector, M12, 8-pin, A-coded</li> </ul>	DSC-1208T000025KMC	6058647
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 5-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 2 m, 5-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15-020UB5XLEAX	2095617
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 5-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 5-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15-050UB5XLEAX	2095618
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 5-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 10 m, 5-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15-100UB5XLEAX	2095619
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 8-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A18-050UA5XLEAX	2095653
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 10 m, 8-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A18-100UA5XLEAX	2095654
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 5-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M12, 5-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 2 m, 5-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15-020UB5M2A15	2096009
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 5-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M12, 5-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 5-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15-050UB5M2A15	2096010
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 5-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M12, 5-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 10 m, 5-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A15-100UB5M2A15	2096011
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M12, 8-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 2 m, 8-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A18-020UA5M2A18	2096033
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M12, 8-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> </ul>	YF2A18-050UA5M2A18	2096034

	Brief description	Type	part no.
	<ul style="list-style-type: none"> <li><b>Cable:</b> 5 m, 8-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>		
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M12, 8-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 10 m, 8-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A18-100UA5M2A18	2096035
		Muting connector	2092758
		IO-Link connector	2092757
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 2 m, 8-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A18-020UA5XLEAX	2095652
system plugs and extension modules			
	<ul style="list-style-type: none"> <li><b>Function range:</b> SP1</li> <li><b>System connection:</b> Plug, M12, 5-pin</li> <li><b>Extension connection:</b> Without extension connection</li> </ul>	SP1-1000	2076832
	<ul style="list-style-type: none"> <li><b>Function range:</b> SP1</li> <li><b>System connection:</b> Plug, M12, 5-pin</li> <li><b>Extension connection:</b> Female connector M12, 5-pin</li> </ul>	SP1-1100	2076833
	<ul style="list-style-type: none"> <li><b>Function range:</b> SP1</li> <li><b>System connection:</b> Male connector M12, 8-pin</li> <li><b>Extension connection:</b> Without extension connection</li> </ul>	SP1-1200	2076834
	<ul style="list-style-type: none"> <li><b>Function range:</b> SP1</li> <li><b>System connection:</b> Male connector M12, 8-pin</li> <li><b>Extension connection:</b> Female connector M12, 5-pin</li> </ul>	SP1-1300	2076835
	<ul style="list-style-type: none"> <li><b>Function range:</b> SP2</li> <li><b>System connection:</b> Plug, M12, 5-pin</li> <li><b>Extension connection:</b> Without extension connection</li> </ul>	SP2-2000	2093097
	<ul style="list-style-type: none"> <li><b>Function range:</b> SP2</li> <li><b>System connection:</b> Plug, M12, 5-pin</li> <li><b>Extension connection:</b> Female connector M12, 5-pin</li> </ul>	SP2-2100	2093098
	<ul style="list-style-type: none"> <li><b>Function range:</b> SP2</li> <li><b>System connection:</b> Male connector M12, 8-pin</li> <li><b>Extension connection:</b> Without extension connection</li> </ul>	SP2-2200	2093099
	<ul style="list-style-type: none"> <li><b>Function range:</b> SP2</li> <li><b>System connection:</b> Male connector M12, 8-pin</li> <li><b>Extension connection:</b> Female connector M12, 5-pin</li> </ul>	SP2-2300	2093100
integration modules and adapters			
		IOA2US-01101 (SiLink2 Master)	1061790

	Brief description	Type	part no.
Photoelectric sensors			
	<ul style="list-style-type: none"> <li>• <b>Sensing range max.:</b> 5 mm ... 500 mm</li> <li>• <b>Functional principle:</b> Photoelectric proximity sensor</li> <li>• <b>Connection type:</b> Cable with M12 male connector, 4-pin, 300 mm</li> <li>• <b>Type of light:</b> Infrared light</li> <li>• <b>Adjustment:</b> Potentiometer</li> <li>• <b>Housing:</b> Rectangular</li> </ul>	GTB6-P7441S56	1077541
	<ul style="list-style-type: none"> <li>• <b>Sensing range max.:</b> 0.15 m ... 12 m, 0.15 m ... 10 m</li> <li>• <b>Functional principle:</b> Photoelectric retro-reflective sensor</li> <li>• <b>Functional principle detail:</b> With minimum distance to reflector (dual lens system)</li> <li>• <b>Switching output:</b> PNP</li> <li>• <b>Switching mode:</b> Light/dark switching</li> <li>• <b>Connection type:</b> Male connector M12, 4-pin</li> <li>• <b>Light source:</b> PinPoint LED</li> <li>• <b>Adjustment:</b> None</li> </ul>	GL10-P4151	1069860
	<ul style="list-style-type: none"> <li>• <b>Sensing range max.:</b> 0.03 m ... 6 m</li> <li>• <b>Functional principle:</b> Photoelectric retro-reflective sensor</li> <li>• <b>Connection type:</b> Cable with M12 male connector, 4-pin</li> <li>• <b>Type of light:</b> Visible red light</li> <li>• <b>Adjustment:</b> Potentiometer</li> <li>• <b>Housing:</b> Rectangular</li> </ul>	GL6-P0211S49	1070568
	<ul style="list-style-type: none"> <li>• <b>Sensing range max.:</b> 20 mm ... 950 mm</li> <li>• <b>Functional principle:</b> Photoelectric proximity sensor</li> <li>• <b>Functional principle detail:</b> Background suppression</li> <li>• <b>Switching output:</b> PNP</li> <li>• <b>Switching mode:</b> Light switching</li> <li>• <b>Connection type:</b> Male connector M12, 4-pin</li> <li>• <b>Light source:</b> PinPoint LED</li> <li>• <b>Adjustment:</b> Potentiometer</li> </ul>	GTB10-P4411S01	1066852
reflectors and optics			
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Rectangular, screw connection</li> <li>• <b>Dimensions:</b> 51 mm 61 mm</li> <li>• <b>Ambient operating temperature:</b> -30 °C ... +65 °C</li> </ul>	P250	5304812

	Brief description	Type	part no.
network devices			
		SIG200-0A0G12200	1102605
		SIG200-0A0412200	1089794
		SIG200-0A0512200	1089796

## SICK AT A GLANCE

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.

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