

# PFT-SRBX25AG1SSAAMSSZ



**PRESSURE TRANSMITTER** 

PRESSURE TRANSMITTER



## Ordering information

Туре	Part no.
PFT-SRBX25AG1SSAAMSSZ	6050878

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





## Detailed technical data

#### Features

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Pressure unit	bar
Measuring range	0 bar 0.25 bar
Process temperature	-30 °C +100 °C
Maximum ohmic load R <sub>A</sub>	4 mA 20 mA, 2-wire ( $R_A \le (L^+ - 10 \text{ V}) / 0.02 \text{ A}$ [Ohm]) 0 V 5 V, 3-wire ( $R_A > 5 \text{ kOhm}$ ) 0 V 10 V, 3-wire ( $R_A > 10 \text{ kOhm}$ )
Output signal	4 mA 20 mA, 2-wire
Specialty	Without
Mechanics/electronics	
Process connection	G ¼ A according to DIN 3852-E
Wetted parts	Standard memrane: Stainless steel 1.4571, stainless steel 1.4534 for measuring ranges > 25 bar
Internal transmission fluid	Synthetic oil (Not available for version with standard membrane for pressure ranges > 25 bar)
Pressure port	Standard
Housing material	Stainless steel 1.4571
Connection type	M12 round connector x 1, 4-pin
Supply voltage	10 V DC 30 V DC
Electrical safety	Overvoltage protection: 36 V DC Short-circuit protection: $Q_A$ towards M Reverse polarity protection: L <sup>+</sup> to M Protection class: III
Dielectric strength	500 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)
CE-conformity	Pressure equipment directive: 2014/68/EU EMC directive: 2004/108/EC, EN 61326-2-3
Weight sensor	Approx. 200 g

<sup>1)</sup> Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

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Seal	Without seal
Enclosure rating	IP67 <sup>1)</sup>
Protection class III	$\checkmark$
MTTF	403 years

<sup>1)</sup> Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

#### Performance

Non-linearity	$\leq$ $\pm$ 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
Accuracy	$\leq$ ± 0.25 % of the span
Non-repeatability	$\leq \pm 0.1$ % of the span
Response time (10 % 90 %)	$\leq$ 1 ms $\leq$ 10 ms at medium temperatures below < –30 °C for pressure ranges up to 25 bar or with flush-mounted membrane
Long-term drift/one-year stability	$\leq$ ± 0.2 % of span (at reference conditions)
Temperature coefficient in rated tempera- ture range	Mean TC of zero: $\leq$ 0.2 % of span / 10 K (< 0.4 % for pressure ranges $\leq$ 0.25 bar) Mean TC of span $\leq$ 0.2 % of span / 10 K
Rated temperature range	0 °C +80 °C
Service life	Minimum 10 Mio. load cycles
Ambient data	
Ambient temperature	-20 °C +80 °C
Storage temperature	-40 °C +100 °C, with flush-mounted membrane and cooling element –20 °C +100 °C
Shock load	1000 g according to IEC 60068-2-27 (mechanical shock) 400 g according to IEC 60068-2-27 (mechanical shock) for version with integrated cooling ele- ment
Vibration load	20 g according to IEC 60068-2-6 (vibration under resonance) 10 g according to IEC 60068-2-6 (vibration undencr resonae) for version with integrated cool- ing element

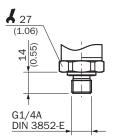
### Classifications

eCl@ss 5.0	27200614
eCl@ss 5.1.4	27200614
eCl@ss 6.0	27200614
eCl@ss 6.2	27200614
eCl@ss 7.0	27200614
eCl@ss 8.0	27200614
eCl@ss 8.1	27200614
eCl@ss 9.0	27200614
eCl@ss 10.0	27200614
eCl@ss 11.0	27200614
eCl@ss 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41112410

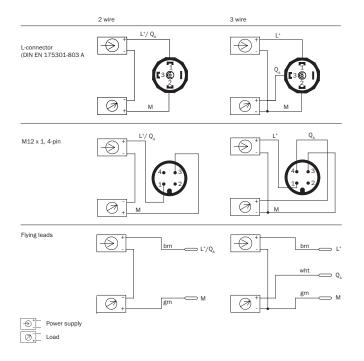
PRESSURE TRANSMITTER

#### Dimensional drawing (Dimensions in mm (inch))

G ¼ A DIN 3852-E



## Connection type



#### **Recommended accessories**

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
Fat	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, angled Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	DOI-1204-W05MD	6020399

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Head & Emsle connector, M12, 4-pin, streight, A-codedYE2114_ 020UB3XLEAX2095607Head & Contector, M12, 4-pin, streight, A-coded020UB3XLEAX2095234Cabbe: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 mYE2114_ 020UB3XLEAX2095234Head & Emsle connector, M12, 4-pin, streight, A-codedVE2014_ 020UB3XLEAX2095608Head & Emsle connector, M12, 4-pin, streight, A-codedVE2014_ 050UB3XLEAX2095608Head & Emsle connector, M12, 4-pin, streight, A-codedVE2014_ 050UB3XLEAX2095235Head & Emsle connector, M12, 4-pin, streight, A-codedVE2014_ 050UB3XLEAX2095235Head & Emsle connector, M12, 4-pin, streight, A-codedVE2014_ 100UB3XLEAX2096236Head & Emsle connector, M12, 4-pin, streight, A-codedVE2014_ 100UB3XLEAX2096236Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mVE2014_ 100UB3XLEAX2096236Head & Emsle connector, M12, 4-pin, straight, A-codedVE2014_ 100UB3XLEAX2096237Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 mVE2014_ 100UB3XLEAX2096237Head & Emsle connector, M12, 4-pin, straight, A-codedVE2014_ 200UB3XLEAX2096238Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mVE2014_ 200UB3XLEAX2096237Head & Emsle connector, M12, 4-pin, straight, A-codedVE2014_ 200UB3XLEAX2096238Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mVE2014_ 200UB3XLEAX2096238Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mVE2014_ <th></th> <th>Brief description</th> <th>Туре</th> <th>Part no.</th>		Brief description	Туре	Part no.
Head B: Fyng leads020VB3XLEAX020VB3XLEAXCable: Sensor/actuator cable, PVC, unshielded, 2 mVF2A14- 050UB3XLEAX2095008Head A: female connector, M12, 4-pin, straight, A-coded Head B: Fyng leadsVF2A14- 050UB3XLEAX2096235Mead A: female connector, M12, 4-pin, straight, A-coded 	<b>N</b> 0	Head B: Flying leads		2095607
Head E: Fying leadsOSOUB3XLEAXCable: Sensor/actuator cable, PUR, halogen/free, unshielded, 5 mYF2A14- OSOVB3XLEAX2098235Mead A: female connector, M12, 4-pin, straight, A-coded Head B: Fing leads2096238With Head A: female connector, M12, 4-pin, straight, A-coded Head A: female connector, M12, 4-pin, straight, A-coded Head B: Fing leads2095316With Head A: female connector, M12, 4-pin, straight, A-coded Head B: Fing leads2095316<	<b>N</b> O	Head B: Flying leads		2096234
Head B: Flying leads Ceble: Sensor/actuator cable, PVC, unshielded, 5 mOSOVB3XLEAXHead A: female connector, M12, 4 pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 15 mVF2A14 150VB3XLEAX2096231Head A: female connector, M12, 4 pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 20 mVF2A14 200UB3XLEAX2095611Head A: female connector, M12, 4 pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 20 mVF2A14 200VB3XLEAX2095631Head A: female connector, M12, 4 pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 20 mVF2A14 200VB3XLEAX2095632Head A: female connector, M12, 4 pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 2 mVG2A14 200VB3XLEAX2095635Head A: female connector, M12, 4 pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 2 mVG2A14 0020WB3XLEAX2095885 <t< td=""><td><b>N</b>0</td><td>Head B: Flying leads</td><td></td><td>2095608</td></t<>	<b>N</b> 0	Head B: Flying leads		2095608
Head B: Flying leads100UB3XLEAXCable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m100UB3XLEAXCable: Sensor/actuator cable, PUC, unshielded, 10 m0VF2A14 100VB3XLEAX2096236Cable: Sensor/actuator cable, PUC, unshielded, 10 mVF2A14 150UB3XLEAX2095610Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 mVF2A14 150UB3XLEAX2095610Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 15 mVF2A14 150VB3XLEAX2095631Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 25 mVF2A14 200UB3XLEAX2095631Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 20 mVF2A14 200UB3XLEAX2095631Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 20 mVF2A14 200UB3XLEAX2095615Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 20 mVf2A14 200UB3XLEAX2095766Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 2 mVG2A14 020UB3XLEAX2095766Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 2 mVG2A14 020UB3XLEAX2095767Head A: female conne	<b>N</b>	Head B: Flying leads		2096235
Head B: Fying leads100 WB3XLEAX100 WB3XLEAXCable: Sensor/actuator cable, PVC, unshielded, 10 m100 WB3XLEAX2095610Head A: female connector, M12, 4-pin, straight, A-coded Head B: Fying leads150 WB3XLEAX2095610Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 mVF2A14- 150 WB3XLEAX2096237Head A: female connector, M12, 4-pin, straight, A-coded Head B: Fying leadsVF2A14- 2000B3XLEAX2095611Cable: Sensor/actuator cable, PVC, unshielded, 15 mVF2A14- 2000B3XLEAX2095611Head A: female connector, M12, 4-pin, straight, A-coded Head B: Fying leadsVF2A14- 2000B3XLEAX2095611Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mVF2A14- 2000B3XLEAX2095615Head A: female connector, M12, 4-pin, straight, A-coded Head B: Fying leadsVF2A14- 2000B3XLEAX2095615Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 25 mVF2A14- 250UB3XLEAX2095661Head A: female connector, M12, 4-pin, angled, A-coded Head B: Fying leadsVG2A14- 020UB3XLEAX2095766Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 mVG2A14- 020UB3XLEAX2095767Head A: female connector, M12, 4-pin, angled, A-codedVG2A14- 020UB3XLEAX2095767Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 mVG2A14- 020UB3XLEAX2095767Head A: female connector, M12, 4-pin, angled, A-codedVG2A14- 020UB3XLEAX2095767Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 mVG2A14- 050UB3XLEAX2095897 <t< td=""><td><b>N</b></td><td>Head B: Flying leads</td><td></td><td>2095609</td></t<>	<b>N</b>	Head B: Flying leads		2095609
Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 m150UB3XLEAX2096237Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 m150VB3XLEAX2095611Nead A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 mYF2A14- 200UB3XLEAX2095611Nead A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 mYF2A14- 200VB3XLEAX2095615Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 25 mYF2A14- 200VB3XLEAX2095766Nead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 mYG2A14- 020UB3XLEAX2095766Nead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 mYG2A14- 020UB3XLEAX2095767Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 mYG2A14- 050UB3XLEAX2095767Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 mYG2A14- 050UB3XLEAX2095767Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 mYG2A14- 050VB3XLEAX2095767<	<b>N</b> O	Head B: Flying leads		2096236
Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 m150VB3XLEAX2095611Wead A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 20 mYF2A14- 200UB3XLEAX2095631Wead A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 mYF2A14- 200VB3XLEAX2095633Wead A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 mYF2A14- 200VB3XLEAX2095615Wead A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, halogen-free, unshielded, 25 mYF2A14- 200UB3XLEAX2095766Wead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 2 mYG2A14- 020UB3XLEAX2095766Wead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 2 mYG2A14- 020UB3XLEAX2095767Wead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 2 mYG2A14- 020UB3XLEAX2095767Wead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 5 mYG2A14- 050UB3XLEAX2095767Wead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUC, unshielded, 5 mYG2A14- 050UB3XLEAX2095768Wead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads 	<b>N</b>	Head B: Flying leads		2095610
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Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m020UB3XLEAX2095895Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 mYG2A14- 020VB3XLEAX2095767Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 mYG2A14- 050UB3XLEAX2095767Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 mYG2A14- 050VB3XLEAX2095897Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 mYG2A14- 050VB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 mYG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 mYG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mYG2A14- 100UB3XLEAX2095898Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leadsYG2A14- 100UB3XLEAX2095898Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leadsYG2A14- 100VB3XLEAX2095898	6	Head B: Flying leads		2095615
Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 mO20VB3XLEAXHead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 mYG2A14- O50UB3XLEAX2095767Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 mYG2A14- O50VB3XLEAX2095897Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 mYG2A14- O50VB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mYG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mYG2A14- 100UB3XLEAX2095898		Head B: Flying leads		2095766
Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 mO50UB3XLEAXHead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 mYG2A14- 050VB3XLEAX2095897Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 mYG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mYG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mYG2A14- 100UB3XLEAX2095898	>	Head B: Flying leads		2095895
Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 mO50VB3XLEAXHead A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mYG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 mYG2A14- 100UB3XLEAX2095768Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leadsYG2A14- 100VB3XLEAX2095898		Head B: Flying leads		2095767
Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m 100UB3XLEAX   Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads YG2A14- 100VB3XLEAX 2095898	>	Head B: Flying leads		2095897
Head B: Flying leads 100VB3XLEAX		Head B: Flying leads		2095768
		Head B: Flying leads		2095898

PRESSURE TRANSMITTER

Brief description	Туре	Part no.
Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 15 m	YG2A14- 150UB3XLEAX	2095769
Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 m	YG2A14- 150VB3XLEAX	2096213
Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 20 m	YG2A14- 200UB3XLEAX	2095770
Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 m	YG2A14- 200VB3XLEAX	2096214
Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 25 m	YG2A14- 250UB3XLEAX	2095771

# 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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