

SAFETY LASER SCANNERS



SAFETY LASER SCANNERS



Illustration may differ

Ordering information

Integra- tion in the control system	Sub prod- uct family	Protective field range	Number of fields	Number of monitor- ing cases	Connec- tion type	Туре	Part no.
EFI-pro	microS- can3 Pro - EFI-pro	9 m	128	128	M12 C	MICS3- BAZ90ZA1P0	1103033

The system plug is mounted on the rear side. It can either be mounted on the rear side or the underside.

Other models and accessories → www.sick.com/microScan3

Detailed technical data

Features

Sub product family	microScan3 Pro - EFI-pro
Model	Sensor including system plug (pre-mounted at the rear)
Application	Indoor
Protective field range	9 m
Warning field range	64 m
Collision protection field range	19 m (on reference target)
Number of simultaneously monitored fields	≤ 4 ¹⁾
Number of fields	128
Number of monitoring cases	128
Scanning angle	275°
Resolution (can be configured)	30 mm 40 mm 50 mm 60 mm 70 mm 150 mm 200 mm
Angular resolution	0.1°
Response time	115 ms
Protective field supplement	100 mm

¹⁾ Protection, warning or contour detection fields.

Safety-related parameters

Туре	Type 3 (IEC 61496)
Safety integrity level	SIL 2 (IEC 61508)

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Category	Category 3 (EN ISO 13849)
Performance level	PL d (EN ISO 13849)
$\ensuremath{PFH}_{\ensuremath{D}}$ (mean probability of a dangerous failure per hour)	8.0 x 10 ⁻⁸
T _M (mission time)	20 years (EN ISO 13849)
Safe state in the event of a fault	The safety outputs via the network are logic 0.

Functions

Restart interlock	J
Restart Interiock	•
Multiple sampling	\checkmark
Monitoring case switching	✓
Simultaneous monitoring	✓
Static protective field switching	1
Collision protection field	4
Safe contour detection	4
Contour as a reference	1
Integrated configuration memory	1
Measured data output	Via Ethernet
Safe SICK device communication via EFI- pro	4

Interfaces

Connection type	
Voltage supply	1 x male connector, M12, 4-pin, A-coded
Fieldbus, industrial network	2 x M12 female connectors, 4-pin, D-coded
Outputs	
OSSD pairs	0
Safety outputs via network	4
Configuration method	PC with Safety Designer (Configuration and Diagnostic Software)
Configuration and diagnostics interface	USB 2.0, Mini-USB, Ethernet
Data interface	
Services	EtherNet/IP™ CIP Safety™ CoLa 2 (configuration and diagnostics using Safety Designer) Data output DHCP SNMP SNTP (client and server)
Fieldbus, industrial network	EFI-pro
RPI (requested packet interval)	5 ms 1,000 ms, multiple of 5 ms
Display elements	Graphic color display, LEDs
Electrical data	

Protection class	III (EN 61140)
Supply voltage V _s	24 V DC (16.8 V DC 30 V DC)
Power consumption typical	7.2 W

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Enclosure ratingP65 (IEC 60529)Ambient light immunityS000 k (IEC 61496-3)Ambient operating temperature-10°C+50°CStorage temperature-25°C+70°CVibration resistanceEC 60068-2-6, IEC 600721-3-5, IEC TR 60721-4-3, IEC 61496-1, IEC 61496-3, SM4 (IEC 0721-4-3)Shock resistanceEC 60068-2-7, IEC 600721-3-5, IEC TR 60721-4-3, IEC 61496-1, IEC 61496-3, M4 (IEC 0721-4-3)Shock resistanceEC 60068-2-7, IEC 60721-3-5, IEC TR 60721-4-3, IEC 61496-1, IEC 61496-3, M4 (IEC 0721-4-3)Shock resistanceIEC 60068-2-7, IEC 60721-3-5, IEC TR 60721-4-3, IEC 61496-1, IEC 61496-3, M4 (IEC TR 60721-4-3)Shock resistanceIEC 60068-2-7, IEC 600721-3-5, IEC TR 60721-4-3, IEC 61496-1, IEC 61496-3, SM4 (IEC TR 60721-4-3)Shock resistanceIEC 60068-2-7, IEC 600721-3-5, IEC TR 60721-4-3, IEC 61496-1, IEC 61496-3, SM4 (IEC TR 60721-4-3)Shock resistanceIEC 60068-2-7, IEC 600721-3-5, IEC TR 60721-4-3, IEC 61496-1, IEC 61496-3, SM4 (IEC TR 60721-4-3)Continuous soleIS 00 m/s ² , 16 ms S0 m/s ² , 6 msEMCIEC 61496-1, IEC 61000-62, IEC 61000-64ChrometoinIEC 61496-1, IEC 61000-64Chrometoin <th>Mechanical data</th> <th></th>	Mechanical data	
NamingMumimuBolang colorR1 021 (wellow, R4. 8005 (bioks)Optice color and rationPoleadonateOptice color and rationPoleadonateBoland Color and rationPoleadonateAmbent Uptice Color and rationPoleadonateAmbent Uptice Color and rationPoleadonateStorage tampes tamp	Dimensions (W x H x D)	112 mm x 150.7 mm x 111.1 mm (without system plug)
Naising colorRu 201 (yellow), RAL 9005 (black)Optica cover surface finalMoviachonceOptica cover surface finalVisite with scretch-resistant contingBallFISC 605029Ambert light immonty6000 (Cla G149-63)Andent coperating to mover surfaceSin (Cla G149-63)Andent coperating to mover surfaceSin (Cla G123-85)Storage to mover surfaceCla G0088-264, IEC 60721-3.5, IEC TR 60721-4.3, IEC 61496-1, IEC	Weight	1.45 kg
Optics cover nativalPolyacinoviaOptics cover surface finisCold with scatch reasistant costingAmbient operatingPole Cle Cle Cle Cle Cle Cle Cle Cle Cle C	Housing material	Aluminum
Optics cover surface finishOutside with scretch-resistant coatingBrobiour ratingHeS (IEC 60529)Ambient dataSide (IEC 60529)Ambient operating temperature0.00 (IEC 64196-3)Storage temperature25 ° c 470 ° CViration resistanceES ° c 470 ° CViration resistanceSind (IEC 60721-3.5), IEC TR 60721-4.3, IEC 61496-1, IEC 61496-3, IEC 61006 ° CViration resistanceSind (IEC 60721-3.5), IEC TR 60721-4.3, IEC 61496-1, IEC 61496-3, IEC 61006 ° CViration resistanceSind (IEC 60721-3.5), IEC TR 60721-4.3, IEC 61496-1, IEC 61496-1, IEC 61000 ° CViration resistanceSind (IEC 60721-3.5), IEC TR 60721-4.3, IEC 61496-1, IEC 61496-1, IEC 61000 ° CViration resistanceSind (IEC 60721-3.5), IEC TR 60721-4.3, IEC 61496-1, IEC 61496-1, IEC 61000 ° CViration resistanceViration res	Housing color	RAL 1021 (yellow), RAL 9005 (black)
Ambient data Enclosure rating IP65 (IEC 60529) Ambient light immunity 3.000 k (IEC 61496-3) Ambient operating temperature -0 ° C +50 ° C Storage temperature -25 ° C +70 ° C Storage temperature -25 ° C +70 ° C Vibration resistance IEC 600682-84, IEC 600721-35, IEC TR 60721-43, IEC 61496-1, IEC 61496-3 Storage temperature IEC 600682-27, IEC 60721-35, IEC TR 60721-43, IEC 61496-1, IEC 61496-3 Storage temperature IEC 600682-27, IEC 60721-35, IEC TR 60721-43, IEC 61496-1, IEC 61496-3 Storage temperature IEC 600682-27, IEC 60721-35, IEC TR 60721-43, IEC 61496-1, IEC 61496-3 Storage temperature IEC 600682-27, IEC 60721-35, IEC TR 60721-43, IEC 61496-1, IEC 61496-3 Storage temperature IEC 600682-27, IEC 60721-35, IEC TR 60721-43, IEC 61496-1, IEC 61496-3 Storage temperature IEC 60068-22, IEC 61000-64 EOC IEC 60100-64 Detoration IEC 61496-1, IEC 61000-64 Detoration IEC 61496-1, IEC 61000-64 Class Information IEC 800000% Class Information IEC 800000% Class Information IEC 800000% IEC 850 IEC 722705 <th>Optics cover material</th> <th>Polycarbonate</th>	Optics cover material	Polycarbonate
Enclosure ratingIP66 (IE 060529)Ambient light immunity0.00 x (IEC 01496-3)Ambient light immunity-10 °C + 50 °CShorage temperature-10 °C + 50 °CShorage temperature-25 °C + 70 °CVibration resistanceCE 00068-20 , IEC 000721-35 , IEC TR 00721-43 , IEC 01496-1 , IEC 01496-3 , IEC 0100721-43 , IEC 01496-1 , IEC 01496-3 , IEC 0100721-43 , IEC 01721-43 , IEC 01496-1 ,	Optics cover surface finish	Outside with scratch-resistant coating
Ambient light	Ambient data	
Ambient operature-0 °C °C ·C ·C °C °CStorage temperature-26 °C ·C ·C °C °CVibration resistanceEC 600862.9. EC 600862.9.4. EC 60721.3.9. EC TR 60721.4.3. EC E14961.4.EC 600862.27. EC 600862.9.4. EC 60721.4.3. EC E14961.4. EC 614963.Side (EC R 60721.4.3.)Shock resistanceEC 600862.27. EC 60721.3.5. EC TR 60721.4.3. EC 614961.4. EC 614963.Shock resistanceEC 600862.27. EC 6000.6.4.Continuous waSide (EC R 60721.4.3.)Ontinuous waSide resistanceContinuous waSide resistanceOut resistanceIS C 1000.6.2. EC 61000.6.4.Continuous waSide resistanceOther informationIS reserval 1000%Calestance162 reserval 1000%EcLASS 6.1.4162 reserval 1000%EcLASS 6.1.4162 reserval 1000%EcLASS 6.2172 rosEcLASS 6.1172 rosEcLASS 6.1 <td< th=""><th>Enclosure rating</th><th>IP65 (IEC 60529)</th></td<>	Enclosure rating	IP65 (IEC 60529)
Storage temperature-25 °C +70 °CVibration resistanceEC 60088.26, EC 60058.2.64, IEC 60721.3.5, IEC TR 60721.4.3, IEC 61496.1, IEC 61496.3 IEC 60721.4.3) M4 (IEC TR 60721.4.3)Shock resistanceEC 60068.2.27, IEC 60721.3.5, IEC TR 60721.4.3, IEC 61496.1, IEC 61496.3 M4 (IEC TR 60721.4.3)Shock resistanceEC 60088.2.27, IEC 60721.3.5, IEC TR 60721.4.3, IEC 61496.1, IEC 61496.3 M4 (IEC TR 60721.4.3)Continuous shockShi (IEC 60721.3.6) M4 (IEC TR 60721.4.3)Continuous shockShi (IEC 60006-2, IEC 61000-6.4Continuous shockShi (IEC 60006-2, IEC 61000-6.4ContentionIEC 61000-6.2, IEC 61000-6.4ContentionStoraColass Shi (IEC 600006-2, IEC 61000-6.4StoraColass Shi (IEC 600006-1)StoraColass Shi (IEC 600006-1)StoraCol	Ambient light immunity	3,000 lx (IEC 61496-3)
Viriation resistanceEc 60088-2-6, EC 60088-2-6, 4E C 60721-3-5, EC TR 60721-4-3, EC 61496-1,Viriation resistanceEC 60088-2-7, EC 60721-3-5,Shock resistanceEC 60088-2-7, EC 60721-3-5, EC TR 60721-4-3, EC 61496-1, EC 61496-3Mai (EC R0721-3-5) Mai (EC R0721-3-5) Ma	Ambient operating temperature	-10 °C +50 °C
Rec 4396.3Bic 61496.3Continuous onContinuous on </th <th>Storage temperature</th> <th>-25 °C +70 °C</th>	Storage temperature	-25 °C +70 °C
BACk resistanceBid (ECT R0721-43, IECT R0721-14, IECT R0721-43, IECT R0	Vibration resistance	
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is0 m/s², 6 msEMCIC 61496-1, ICC 61000-6-2, IEC 61000-6-4CherContractionCherValea laser diodeWave lengthNaDetectable remission factor1.8% to several 1000%Laser class0.210 CFR 1040.10 and 1040.11, IEC 60825-1)Classifications272705EcLASS 5.02727070EcLASS 6.02727070EcLASS 6.22727070EcLASS 7.02727070EcLASS 8.12727070EcLASS 8.12727070EcLASS 9.02727070EcLASS 9.02727070EcLASS 1.02727070EcLASS 1.02727070EcLASS 1.02727070EcLASS 1.02727070EcLASS 1.02727070EcLASS 1.02727070EcLASS 1.02727070EcLASS 1.0272705EcLASS 1.0272705End 5.0272705EcLASS 1.0272705EcLASS 1.0272705EcLASS 1.0272705End 5.0272705End 5.0272705EcLASS 1.0272705EcLASS 1.0272705End 5.0272705End 6.0272705End 6.0272705EcLASS 1.0272705EcLASS 1.0272705EcLASS 1.0272705EcLASS 1.0272705EcLASS 1.0272705EcLASS 1.0272705EcLASS 1.0272705EcLASS 1.0272705EcLASS 1.0272705EcLASS	Class	
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Type of lightPulsel alser diadeWave length845 nmDetectable remission factor1.8% to several 1000%Laser class1.21 CFR 1040.10 and 1040.11, EC 60825.1)Classifications:272705ECLASS 5.1.4272705ECLASS 6.0272705ECLASS 7.0272705ECLASS 8.1272705ECLASS 8.1272705ECLASS 9.0272705ECLASS 9.0272705ECL	EMC	IEC 61496-1, IEC 61000-6-2, IEC 61000-6-4
Wave length845 nmDetectable remission factor1.8% to several 1000%Laser class1.2 (CR 2000%)Laser class2.1 (CR 200%)Class for2.7 (CR 200%)EcLASS 5.142.7 (CR 200%)EcLASS 6.02.7 (CR 200%)EcLASS 6.02.7 (CR 200%)EcLASS 7.02.7 (CR 200%)EcLASS 9.02.7 (CR 200%)EcLASS 9.02.7 (CR 200%)EcLASS 9.02.7 (CR 200%)EcLASS 1.02.7 (CR 200%)EcLASS 2	Other information	
Detectable remission factor1.8% to several 1000%Laser class1.8% to several 1000%Laser class1.21 CFR 1040.10 and 1040.11, IEC 60825-1)ClassificationsECLASS 5.0272705ECLASS 5.1.4272705ECLASS 6.0272705ECLASS 6.2272705ECLASS 7.0272705ECLASS 8.1272705ECLASS 9.0272705ECLASS 9.0272705 <t< th=""><th>Type of light</th><th>Pulsed laser diode</th></t<>	Type of light	Pulsed laser diode
Laser class2(1 CFR 1040.10 HQC 00825-1)Classifications:ECLASS 5.0272705ECLASS 5.1.4272705ECLASS 6.0272705ECLASS 7.0272705ECLASS 8.0272705ECLASS 8.1272705ECLASS 9.0272705ECLASS 9.0272705ECLASS 9.0272705ECLASS 1.0.0272705ECLASS 1.0.	Wave length	845 nm
Eclass 2727205 Eclass 5.0 2727205 Eclass 6.0 2727205 Eclass 6.2 2727205 Eclass 6.2 2727205 Eclass 7.0 2727205 Eclass 8.0 2727205 Eclass 8.1 2727205 Eclass 8.0 2727205 Eclass 8.1 2727205 Eclass 8.0 2727205 Eclass 8.1 2727205 Eclass 9.0 2727205 Eclass 11.0 2727205 Eclass 12.0 2727205 Erlm 5.0 Eco2505 Erlm 6.0 Eco2505 Erlm 7.0 Eco2505	Detectable remission factor	1.8% to several 1000%
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Eclass 8.1 2727205 Eclass 9.0 2727205 Eclass 10.0 2727205 Eclass 11.0 2727205 Eclass 12.0 2727205 Etim 5.0 202520 Etim 6.0 E002550 Etim 7.0 E002550	ECLASS 7.0	27272705
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EcLass 10.0 27272705 EcLass 11.0 27272705 EcLass 12.0 27272705 ETIM 5.0 EC002550 ETIM 6.0 EC002550 ETIM 7.0 EC002550	ECLASS 8.1	27272705
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	ETIM 6.0	EC002550
ETIM 8.0 EC002550	ETIM 7.0	EC002550
	ETIM 8.0	EC002550

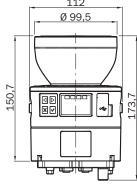
22 36,1

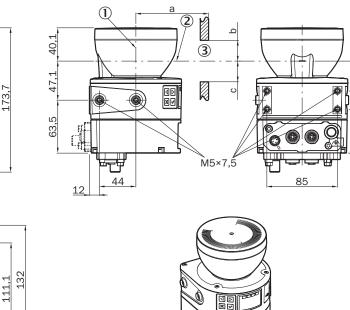
52,5

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UNSPSC 16.0901

39121528





Mirror axis of rotation

Π,

② Scan plane

Required viewing slit (a: length of the viewing slit, b: minimum height above the scan plane, c: minimum height below the scan plane. See the operating instructions for details.)

Pinouts

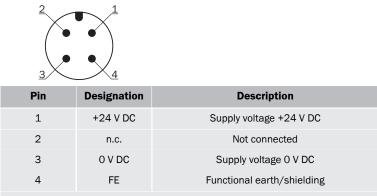
Ethernet (XF1, XF2)

Pin	Designation	Description			
1	TX+	Send data +			
2	RX+	Receive data +			
3	TX-	Send data -			
4	RX-	Receive data -			
Thread	SH	Shielding			
For details see operating instructions					

Dimensional drawing (Dimensions in mm (inch))

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Voltage supply (XD1)



For details see operating instructions

Recommended accessories

Other models and accessories -> www.sick.com/microScan3

	Brief description	Туре	Part no.	
Mounting brackets and plates				
	1 piece, mounting bracket with protection of optics hood, Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	1b mounting kit	2074242	
k	1 piece, mounting bracket, heavy-duty version, with protection cover, for floor mounting, height adjustment possible from 90 310 mm, scanner tilt angle: \pm 5°. Additional mounting brackets are not required. , steel, painted (RAL 1021)	Heavy-duty mounting kit for floor mounting	2102289	
1	1 piece, mounting bracket 150 mm for floor mounting of microScan3, stainless steel, Bracket and 4 x M5 screws for attaching the microScan3	Mounting brack- et 150 mm for floor mounting of microScan3	2112950	
A	1 piece, mounting bracket 300 mm for floor mounting of microScan3, stainless steel, Bracket and 4 x M5 screws for attaching the microScan3	Mounting brack- et 300 mm for floor mounting of microScan3	2112951	
	1 piece, mounting bracket, Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	Mounting kit 1a	2073851	
	1 piece, alignment bracket, alignment with cross-wise axis and depth axis possible, dis- tance between mounting surface and device: 22.3 mm, only in conjunction with mount- ing kit 1a (2073851) or 1b (2074242), Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	Mounting kit 2a	2073852	
	1 piece, Alignment bracket, alignment with cross-wise axis and depth axis possible, dis- tance between mounting surface and device: 52.3 mm, only in conjunction with mount- ing kit 1a (2073851) or 1b (2074242), Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	Mounting kit 2b	2074184	

MICS3-CBAZ90ZA1P03 | microScan3 SAFETY LASER SCANNERS

	Brief description	Туре	Part no.
Others			
	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet Cable: 20 m, 4-wire, CAT5, CAT5e, PUR, halogen-free Description: Ethernet, shielded, Head A: male connector, M12, 4-pin, straight, D coded Head B: male connector, RJ45, 8-pin, straight Cable: PUR, halogen-free, shielded, 2 x 2 x 0.14 mm², Ø 6.4 mm 	SSI-2J04-G20ME60	6063700
~ & &	 Connection type head A: Male connector, M12, 4-pin, angled, D-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet Cable: 20 m, 4-wire, CAT5, CAT5e, PUR, halogen-free Description: Ethernet, shielded, Head A: male connector, M12, 4-pin, angled, D coded Head B: male connector, RJ45, 8-pin, straight Cable: PUR, halogen-free, shielded, 2 x 2 x 0.14 mm², Ø 6.4 mm 	SSL-2J04-H20ME	6063701
•	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 200UB3XLEAX	2095770
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 020UB3XLEAX	2095766
•	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 050UB3XLEAX	2095767
>	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A14- 100UB3XLEAX	2095768
N O	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 020UB3XLEAX	2095607
N O	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 050UB3XLEAX	2095608
•	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 100UB3XLEAX	2095609

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	Brief description	Туре	Part no.
N.	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A14- 200UB3XLEAX	2095611
	 Brief description: The software visualizes diagnostic and device information from safety laser scanners in real time, helping to identify error causes faster and reduce maintenance time. Supported products: All microScan3 variants (except for microScan3 Core I/O variants), outdoorScan3 Pro - EtherNet/IP Version: 1.0 Note: With purchase, you accept the product description available under Downloads > Documentation in connection with the General Terms and Conditions for the Supply of Software Products (AVB Software SICK)., With purchase, you accept the product description available under Downloads > Documentation in connection with the General Terms and Conditions for the Supply of Software Products (AVB Software SICK)., With purchase, you accept the product description available under Downloads > Documentation in connection with the General-Terms-Conditions for the Supply of Software Products (AVB Software SICK). 	SOW/VTL- LIOO7PCWIO	1116788

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.

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