



DATA SHEET

C4P-SX03031A00

deTec
Safety light curtains

SICK

Sensor Intelligence

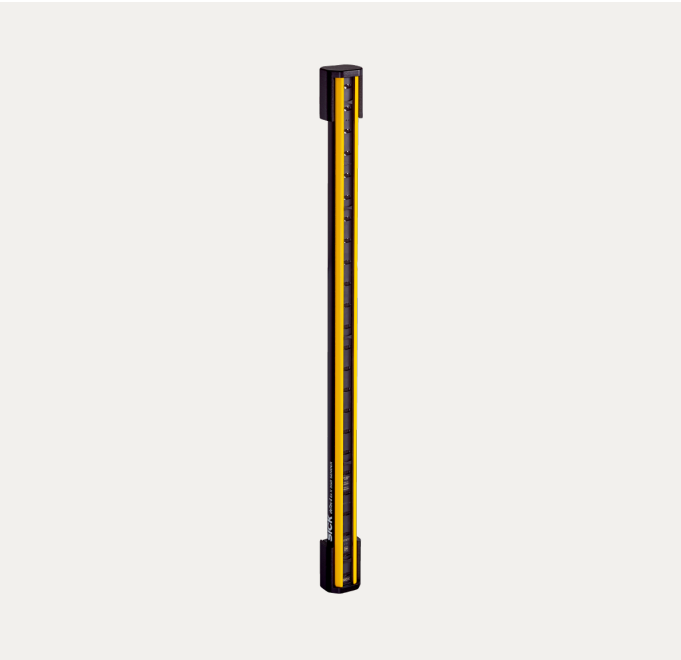


Illustration may differ

SAFETY LIGHT CURTAINS

C4P-SX03031A00

ORDERING INFORMATION

Type	part no.
C4P-SX03031A00	1222436

Further device versions and accessories at www.sick.com/deTec



DETAILED TECHNICAL DATA

FEATURES

Product version	deTec4 Ex II 3GD
Application	Explosive areas
Ex-approvals	ATEX for gas: II 3G Ex ec op is IIC T4 Gc ATEX for dust: II 3D Ex tc IIIC T135°C Dc
System part	Sender
Resolution	30 mm
Scanning range	30 m
Protective field height	300 mm
No blind zones	Yes
Synchronization	Optical synchronization
Integrated laser alignment aid	✓
Items supplied	Sender

SAFETY-RELATED PARAMETERS

Type	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)
PFH _d (mean probability of a dangerous failure per hour)	
Single system (standalone)	15.3 x 10 ⁻⁹
Cascade with one guest	30.5 x 10 ⁻⁹
Cascade with two guest devices	45.6 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.

INTERFACES

System connection	Depending on system plug (M12 male connector, 5-pin or 8-pin)
Extension connection	Depending on system plug (without extension connection or with M12 female connector, 5-pin)
Configuration method	DIP switch on system plug
Display elements	LEDs

ELECTRONICS

Protection class	III (IEC 61140)
Supply voltage V_s	24 V DC (19.2 V ... 28.8 V)
Ripple	$\leq 10 \%$
Power consumption typical	1.23 W (DC)

MECHANICS

Dimensions	See dimensional drawing
Housing material	Aluminum extruded profile

AMBIENT DATA

Enclosure rating	IP65 (IEC 60529)
Ambient operating temperature	0 °C ... +55 °C
Storage temperature	-30 °C ... +70 °C
Air humidity	15 % ... 95 %, Non-condensing
Vibration resistance	5 ... 150 Hz, 3,5 mm / 1 g (EN 60068-2-6)
Shock resistance	15 g / 6 ms (EN 60068-2-27)
Class	3M4 (IEC TR 60721-4-3)

OTHER INFORMATION

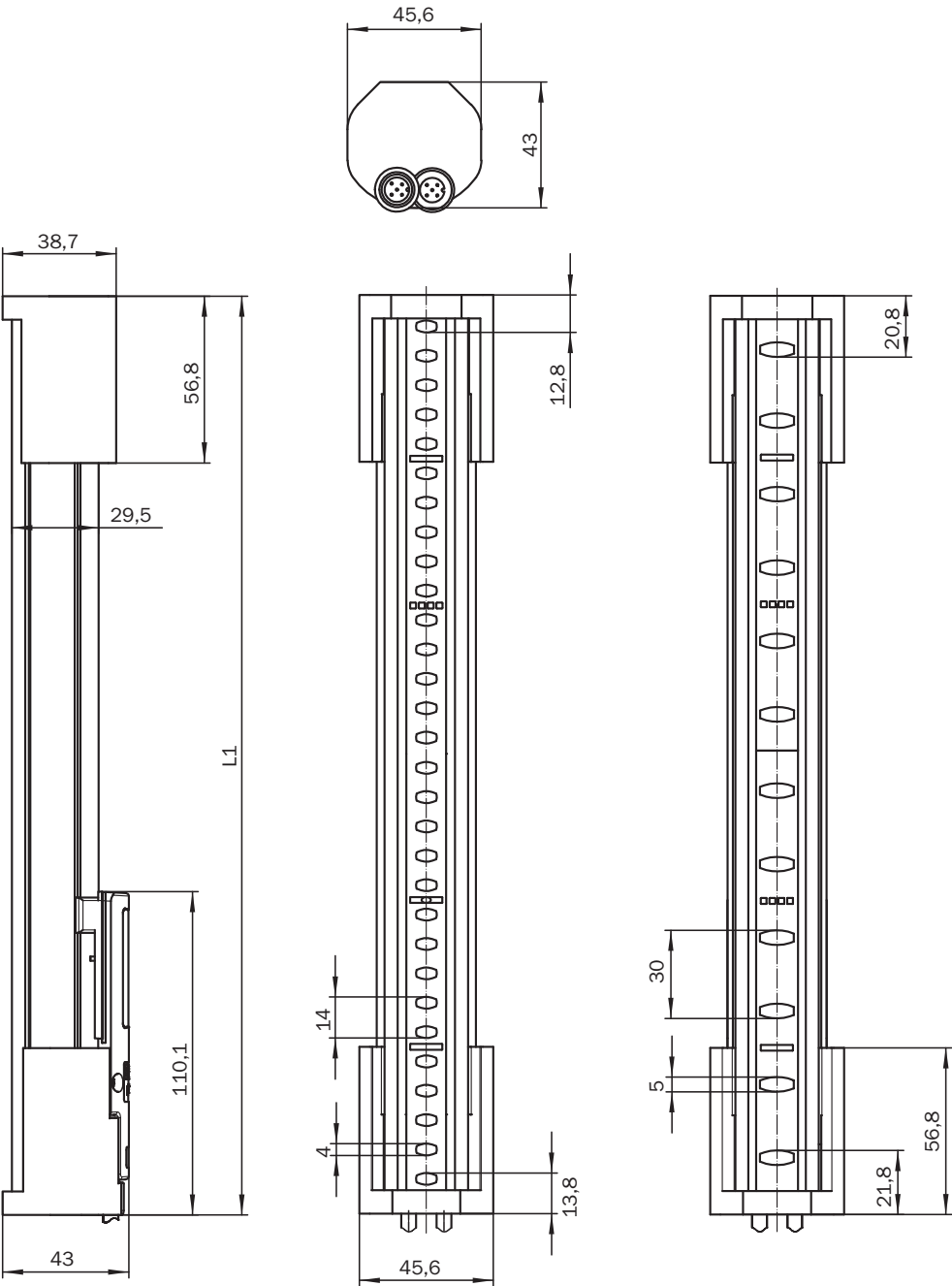
Wave length	850 nm
Type of light	Near-infrared (NIR), invisible
Integrated laser alignment aid	✓
Laser class	1
Wave length	650 nm
Type of light	Visible red light

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
CCC certificate	✓
UK-Type-Examination approval	✓
IECEX certificate	✓
ULus approval	✓
cUL approval	✓
Japan Press Safety certificate	✓

EC-Type-Examination approval	✓
China EX Type-Examination certificate	✓
China GB/T certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

DIMENSIONAL DRAWING

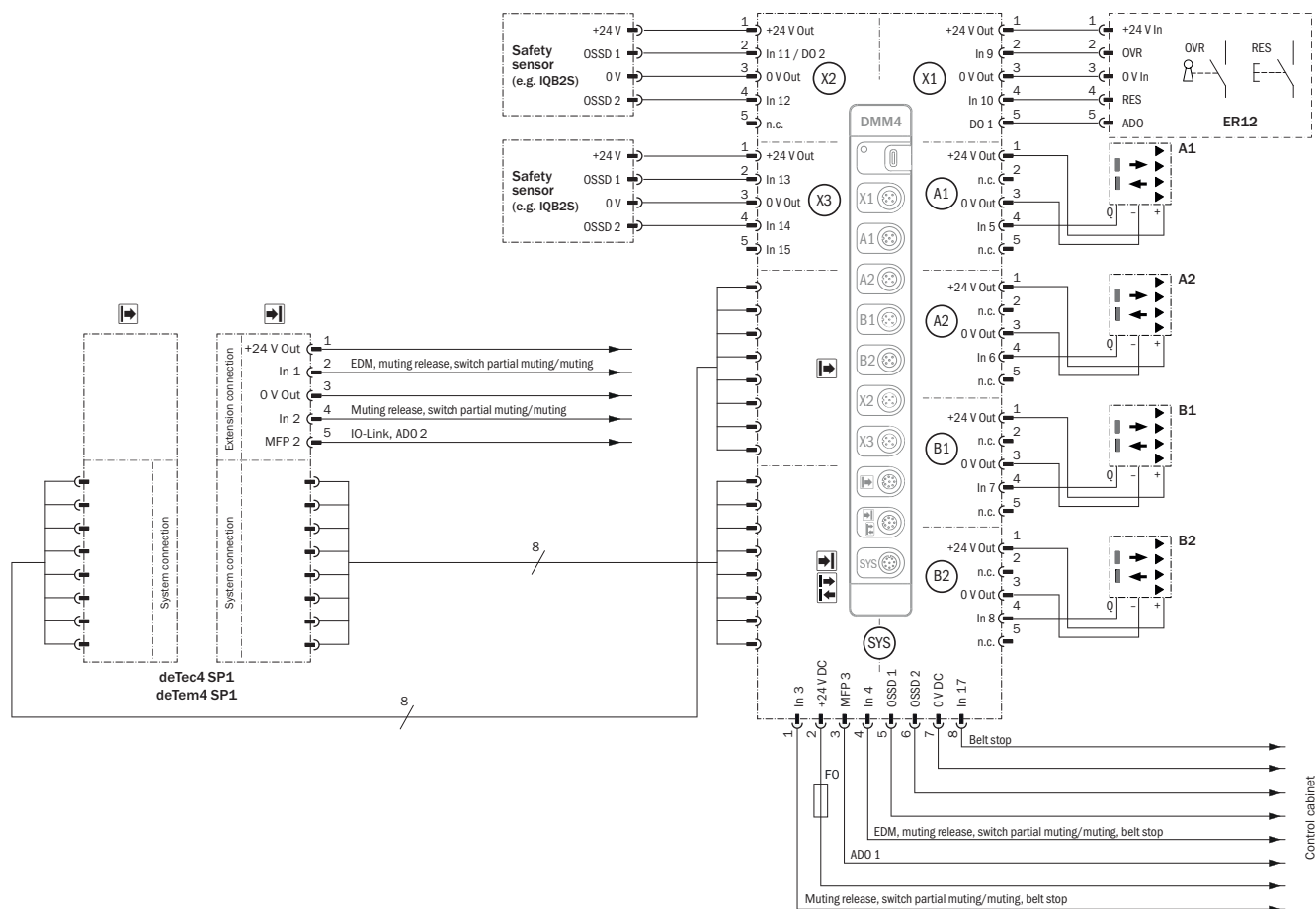


Dimensions in mm (inch)

Protective field height		L1
300	313	
450	463	
600	613	

Protective field height	L1
750	763
900	913
1.050	1.063
1.200	1.213
1.350	1.362
1.500	1.512
1.650	1.662
1.800	1.812
1.950	1.962
2.100	2.112

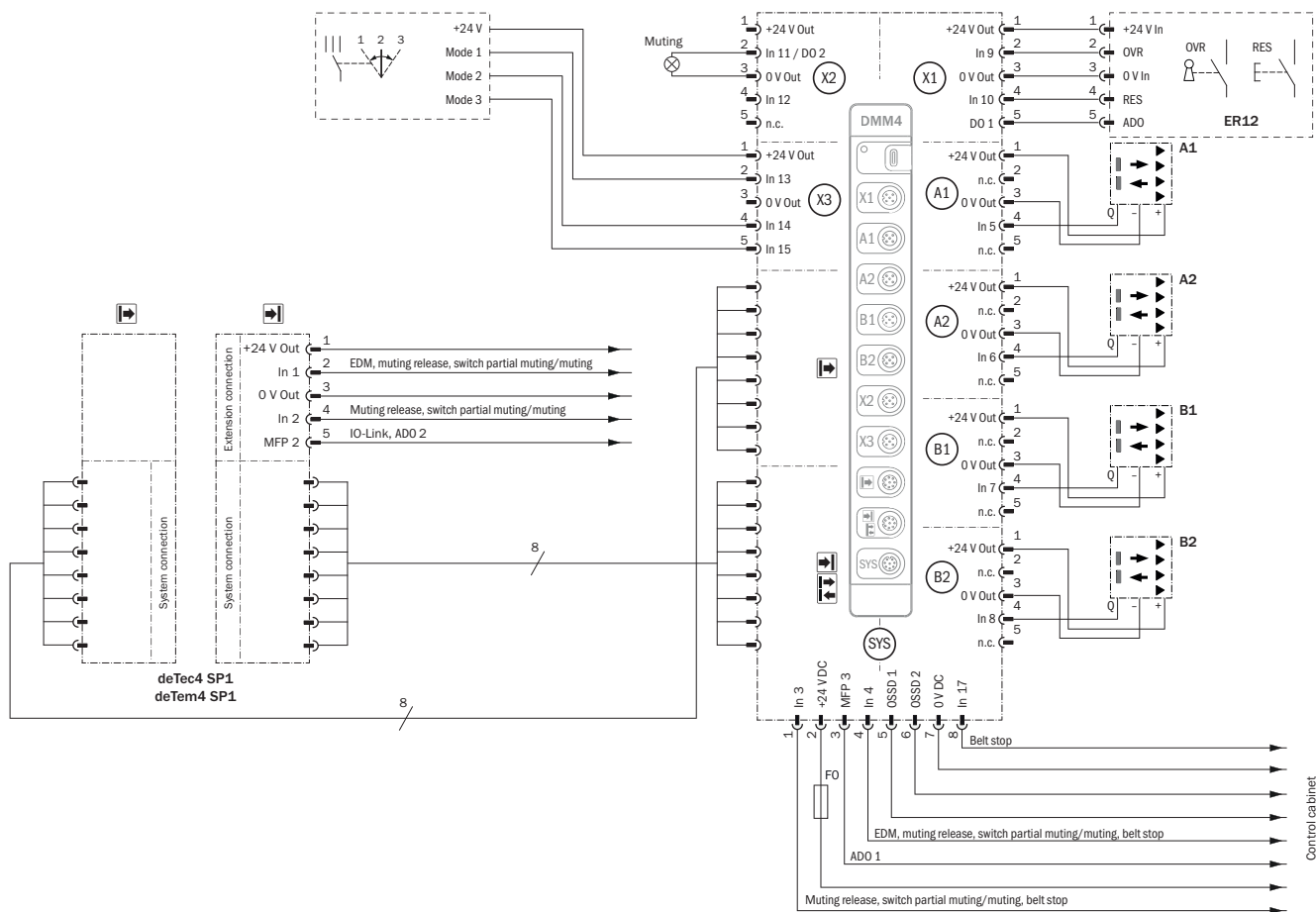
CONNECTION DIAGRAM DETEC4 / DETEM4 ON DMM4, MUTING, RESET, OVERRIDE, SDI



E416641/00/2024-12-20

The requirements in the operating instructions of the devices used must be adhered to.

CONNECTION DIAGRAM DETEC4 / DETEM4 ON DMM4, MUTING, RESET, OVERRIDE, OPERATING MODE SELECTION



E416642/00/2024-12-20

The requirements in the operating instructions of the devices used must be adhered to.

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1222436



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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