PSN01-2501
deTem

SAFETY MULTIBEAM SENSORS

SICK
Sensor Intelligence.

PSN01-2501 | deTem

SAFETY MULTIBEAM SENSORS

Ordering information

Type	part no.
PSN01-2501	1101921

Other models and accessories ➜ www.sick.com/deTem

Detailed technical data

Features

Product version	deTem4 A/P
Application	Normal industrial environment
Functional principle	Active/passive
System part	Passive unit
Type of diversion	Fibre-optic deflection
Scanning range category	Low scanning range
Scanning range	3.2 m
Dimension of the light path	
Typical	0.5 m ... 3.2 m
Number of beams	2
Beam separation	500 mm
Items supplied	Passive unit

Mechanics

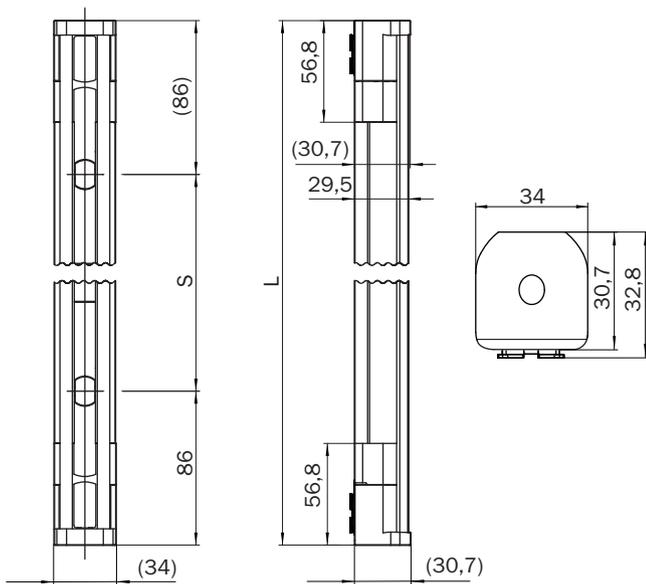|	
Dimensions	See dimensional drawing
Housing cross-section	30.7 mm x 34 mm
Material	
Housing	Aluminum extruded profile
Front screen	Polycarbonate, scratch-resistant coating
Weight	+ 520 g (± 50 g)

Ambient data

Enclosure rating	IP65 (IEC 60529) IP67 (IEC 60529)
Ambient operating temperature	−30 °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)

Classifications

ECLASS 5.0	27272703
ECLASS 5.1.4	27272703
ECLASS 6.0	27272703
ECLASS 6.2	27272703
ECLASS 7.0	27272703
ECLASS 8.0	27272703
ECLASS 8.1	27272703
ECLASS 9.0	27272703
ECLASS 10.0	27272703
ECLASS 11.0	27272703
ECLASS 12.0	27272703
ETIM 5.0	EC001832
ETIM 6.0	EC001832
ETIM 7.0	EC001832
ETIM 8.0	EC001832
UNSPSC 16.0901	46171620

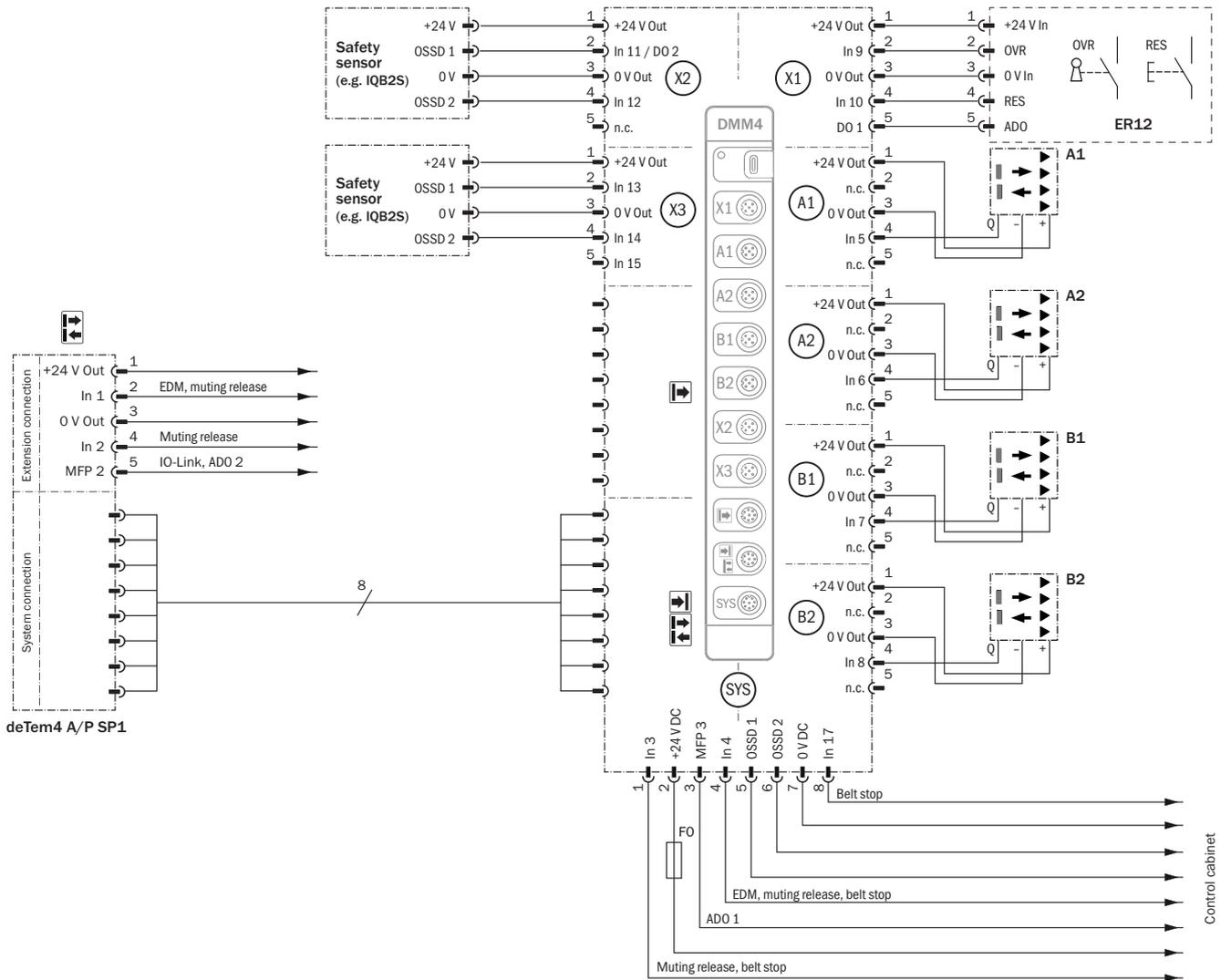## Dimensional drawing Passive unit for small sensing range (fiber deflection)

Dimensions in mm (inch)

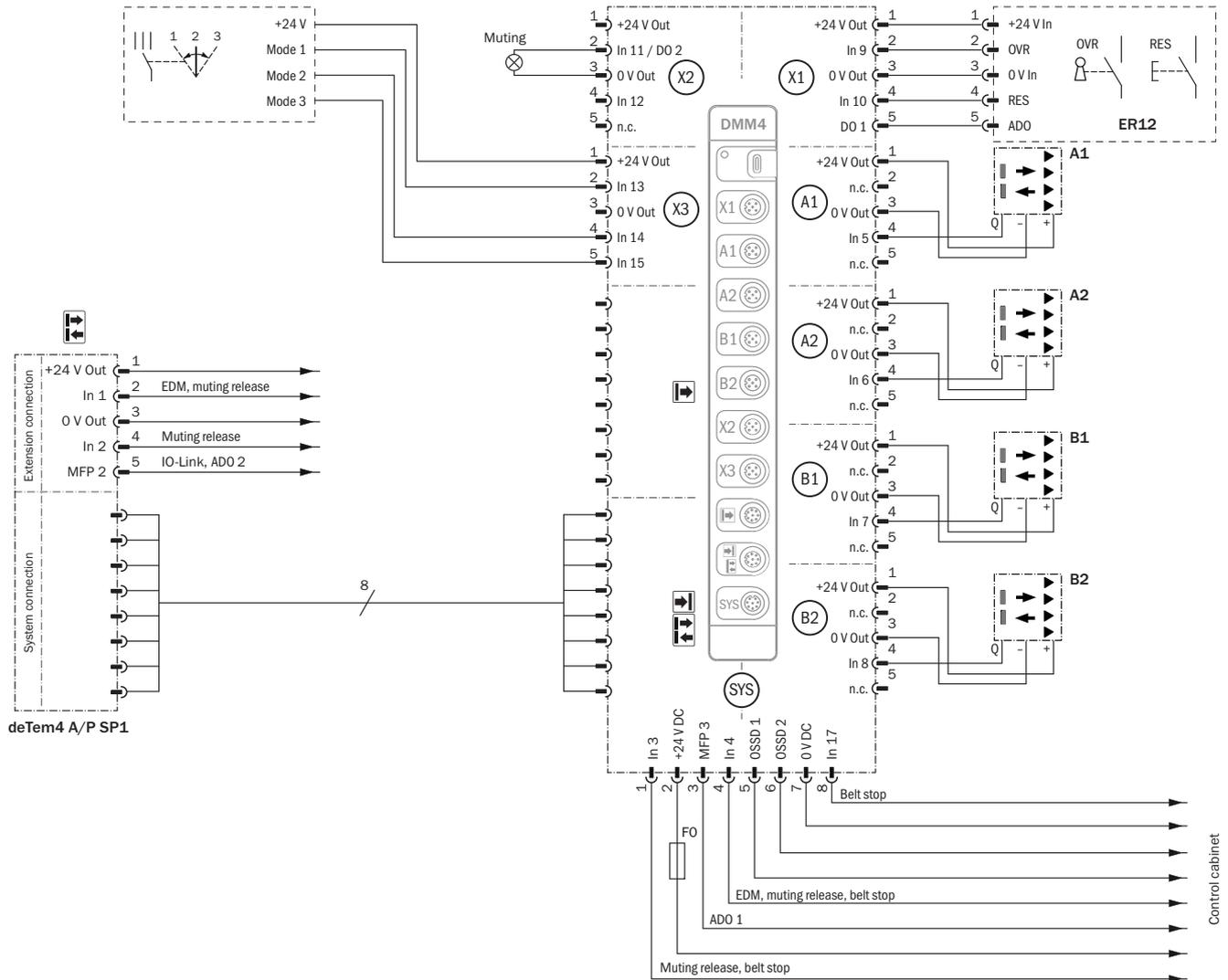| Number of beams	Beam separation S	L
2	500	672
4	300	1.072

Connection diagram deTem4 A/P on DMM4, connection diagram, muting, reset, override, SDI

E416699/00/2024-12-20

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

Connection diagram deTem4 A/P on DMM4, connection example, muting, reset, override, operating mode selection

E416700/00/2024-12-20

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

Recommended accessories

Other models and accessories ➜ www.sick.com/deTem

	Brief description	Type	part no.
Mounting systems			
	• **Description:** QuickFix bracket for 2 devices (e.g. sender and receiver) • **Material:** Plastic • **Details:** Plastic • **Packing unit:** 4 pieces	BEF-3SHABPKU4	2098710
	• **Description:** FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned ± 15°, including M5 screw • **Material:** Plastic • **Details:** Plastic • **Packing unit:** 4 pieces	BEF-1SHABPKU4	2066614
	• **Description:** Muting arm bracket for deTec safety light curtain or deTem safety multibeam sensor • **Packing unit:** 1 piece • **Suitable for:** deTec, deTem	Muting arm bracket	2106455
	• **Description:** Muting arm, short • **Suitable for:** deTec, deTem	Muting arm, short	2111924
	• **Description:** Muting arm, long • **Suitable for:** deTec, deTem	Muting arm, long	2111923
	• **Description:** Universal holder for round steel arms and muting arms, for mounting sensors or reflectors	BEF-KHS-N01	2044953

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.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

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