



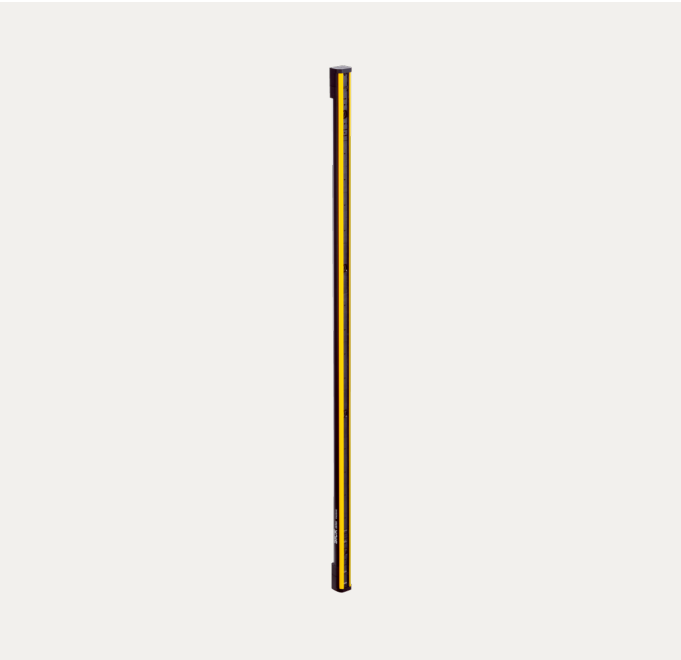
DATA SHEET

# PSN02-2301

deTem  
Safety multibeam sensors

# SICK

Sensor Intelligence



SAFETY MULTIBEAM SENSORS

PSN02-2301

ORDERING INFORMATION

| Type       | part no. |
|------------|----------|
| PSN02-2301 | 1102144  |

Further device versions and accessories at [www.sick.com/deTem](http://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             |                               |
| Beam separation             | 300 mm                        |
| Items supplied              | Passive unit                  |

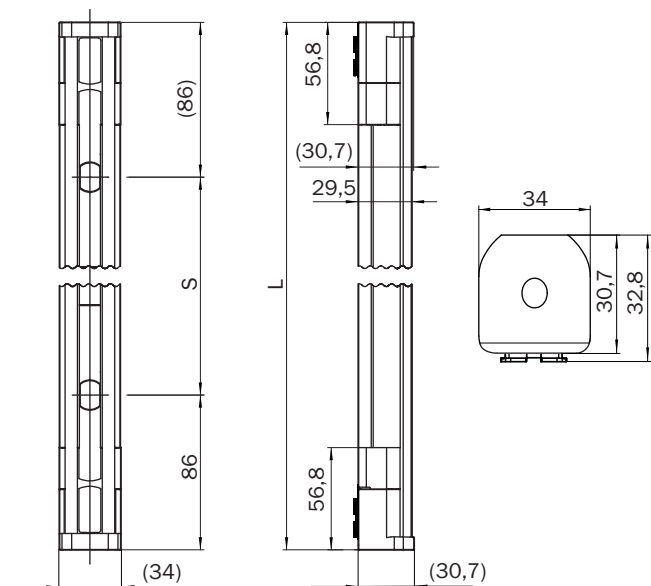
MECHANICS

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| Dimensions            | See dimensional drawing                                                                    |
| Housing cross-section | 30.7 mm x 34 mm                                                                            |
| Material              | Housing Aluminum extruded profile<br>Front screen Polycarbonate, scratch-resistant coating |
| Weight                |                                                                                            |

AMBIENT DATA

|                               |                                      |
|-------------------------------|--------------------------------------|
| Enclosure rating              | IP65 (IEC 60529)<br>IP67 (IEC 60529) |
| Ambient operating temperature | -30 °C ... +55 °C                    |
| Storage temperature           | -30 °C ... +70 °C                    |
| Air humidity                  | 15 % ... 95 %, Non-condensing        |

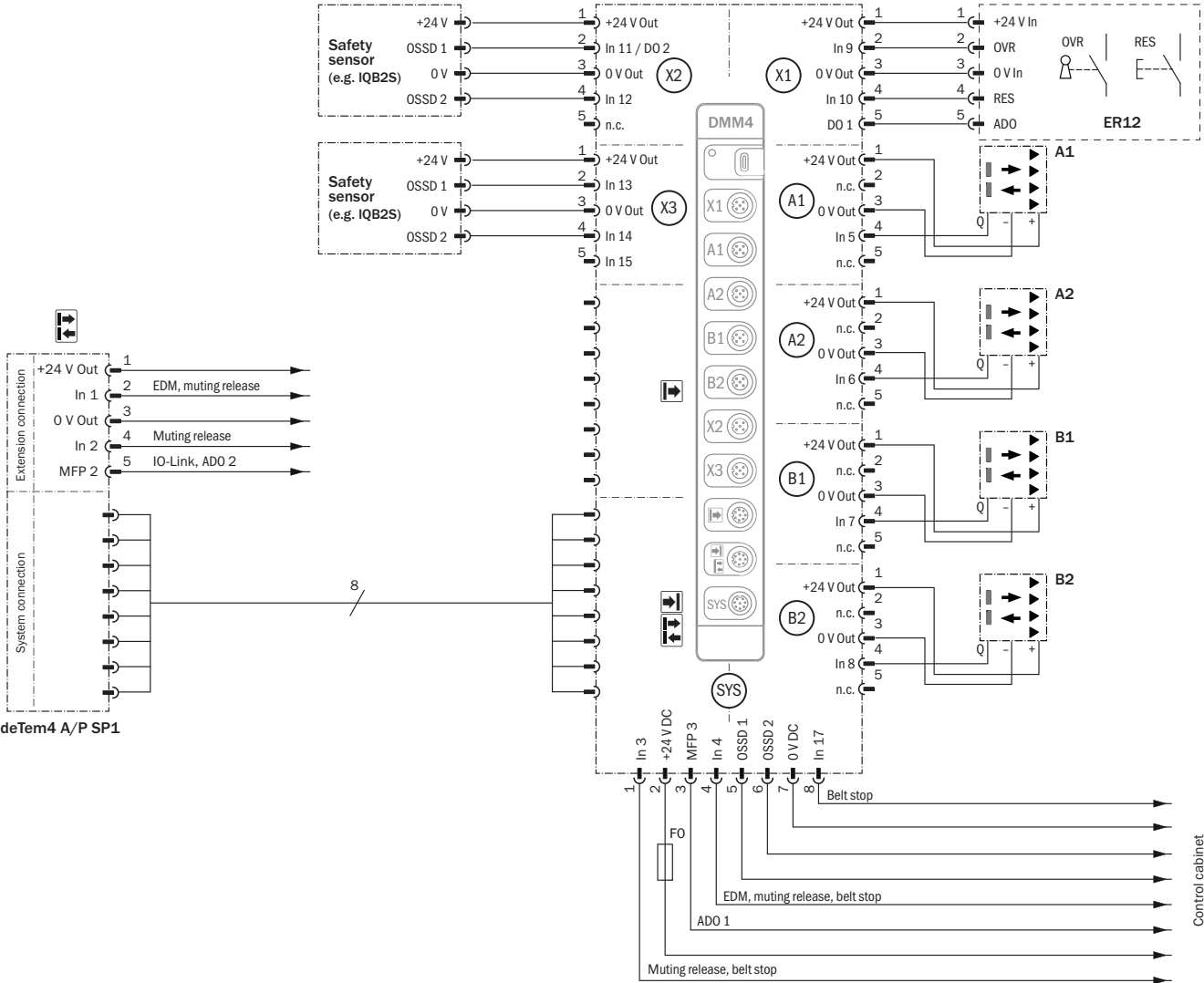
|                      |                                           |
|----------------------|-------------------------------------------|
| Vibration resistance | 5 ... 150 Hz, 3,5 mm / 1 g (EN 60068-2-6) |
| Shock resistance     | 15 g / 6 ms (EN 60068-2-27)               |
| Class                | 3M4 (IEC TR 60721-4-3)                    |

**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 |

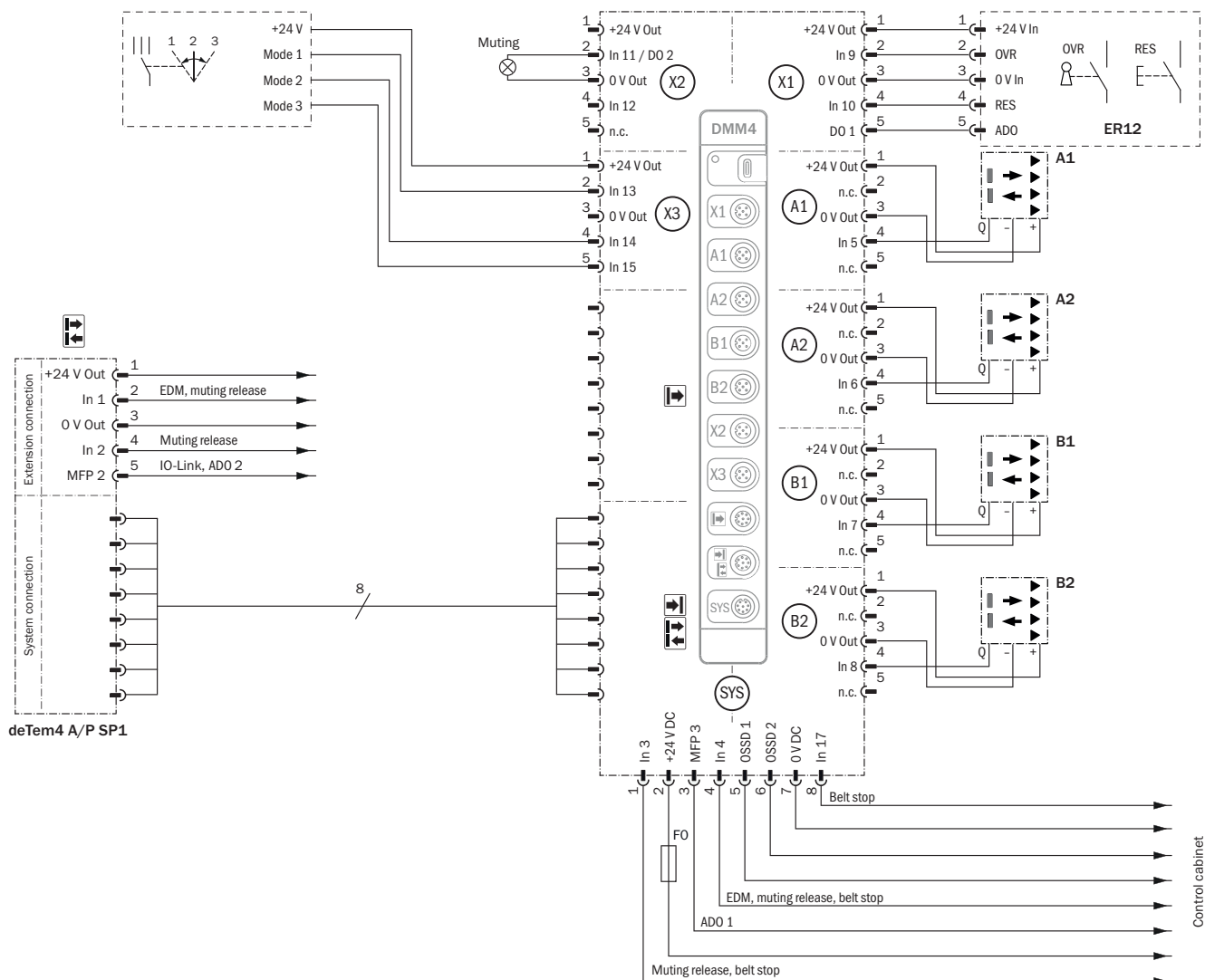
CONNECTION DIAGRAM DETEM4 A/P ON DMM4, MUTING, RESET, OVERRIDE, SDI



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

E416699/00/2024-12-20

## CONNECTION DIAGRAM DETEM4 A/P ON DMM4, 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.

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/1102144](http://www.sick.com/1102144)



SICK AG  
WALDKIRCH  
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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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