



PSN02-2301

deTem

SAFETY MULTIBEAM SENSORS

SICK
Sensor Intelligence.



Ordering information

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

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 | 4 |
| 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 |
| | Front screen Polycarbonate, scratch-resistant coating |
| Weight | 845 g (± 50 g) |

Ambient data

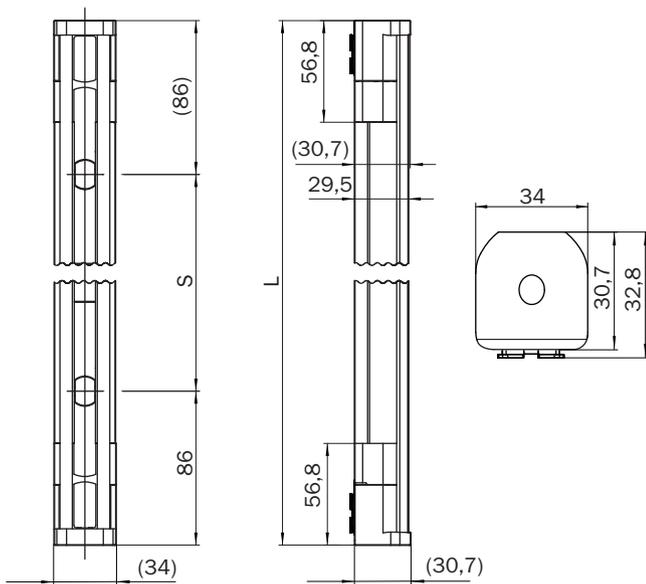
| | |
|--------------------------------------|---|
| Enclosure rating | IP65 (IEC 60529) IP67 (IEC 60529) |
| Ambient operating temperature | -30 °C ... +55 °C |
| Storage temperature | -30 °C ... +70 °C |
| Air humidity | 15 % ... 95 %, Non-condensing |
| Vibration resistance | 5 ... 150 Hz, 3,5 mm / 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 |

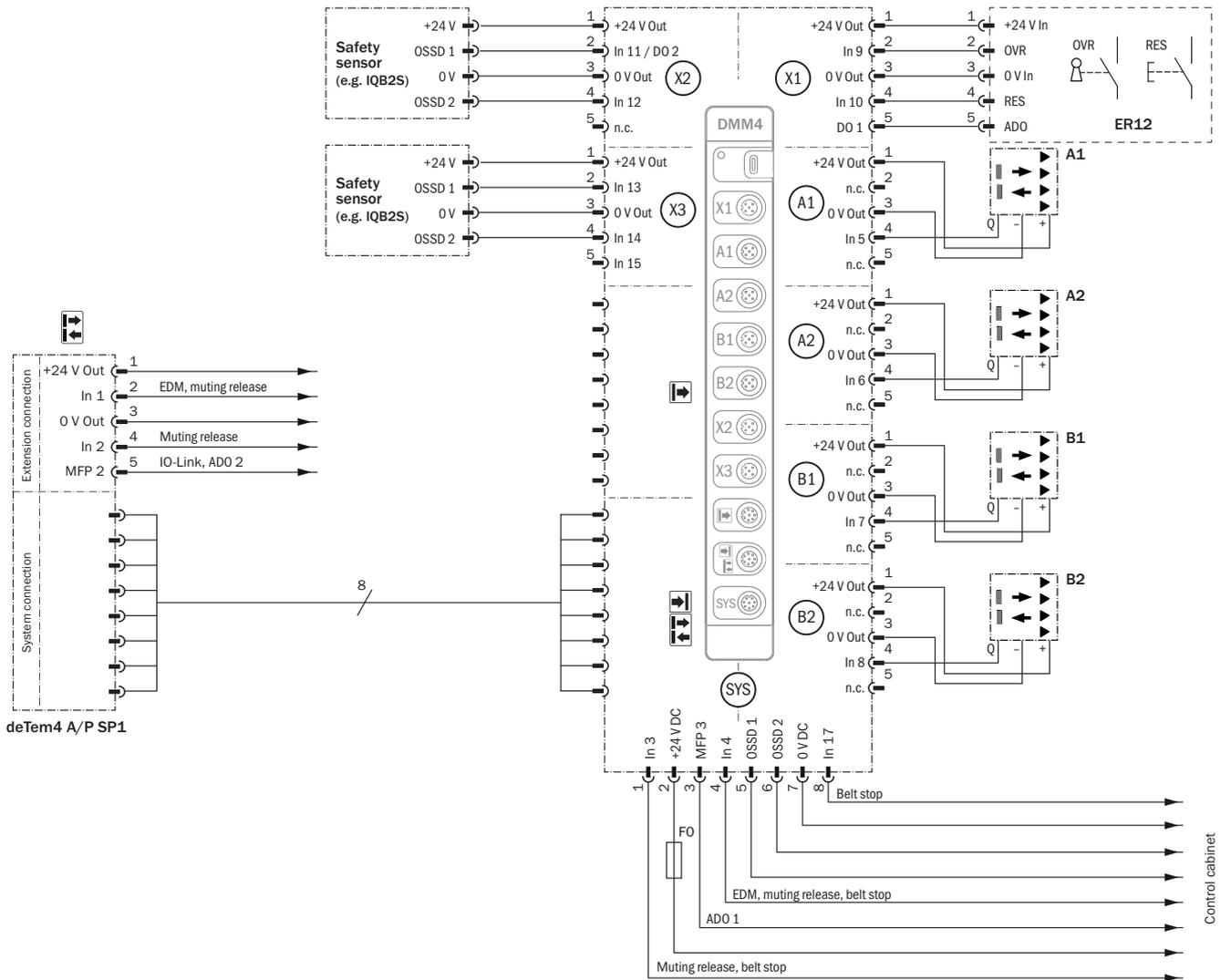
Dimensional drawing Passive unit for small sensing range (fiber deflection)



Dimensions in mm (inch)

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

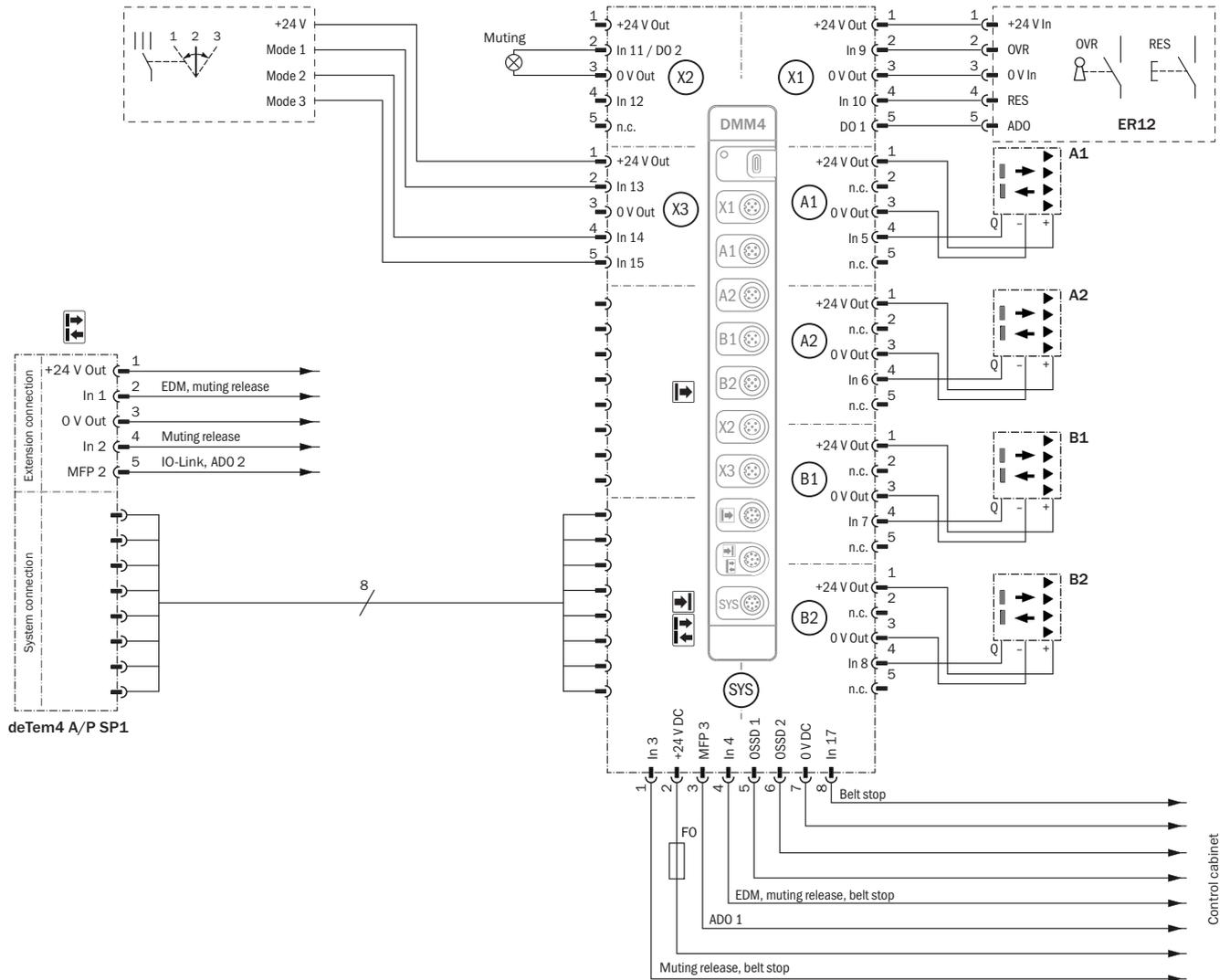
Connection diagram deTem4 A/P on DMM4, connection diagram, muting, reset, override, SDI



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 | | | |
|  | <ul style="list-style-type: none"> Description: QuickFix bracket for 2 devices (e.g. sender and receiver) Material: Plastic Details: Plastic Packing unit: 4 pieces | BEF-3SHABPKU4 | 2098710 |
|  | <ul style="list-style-type: none"> Description: FlexFix bracket for 2 devices (e.g. sender and receiver), can be aligned $\pm 15^\circ$, including M5 screw Material: Plastic Details: Plastic Packing unit: 4 pieces | BEF-1SHABPKU4 | 2066614 |
|  | <ul style="list-style-type: none"> 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 |
|  | <ul style="list-style-type: none"> Description: Muting arm, short Suitable for: deTec, deTem | Muting arm, short | 2111924 |
|  | <ul style="list-style-type: none"> Description: Muting arm, long Suitable for: deTec, deTem | Muting arm, long | 2111923 |
|  | <ul style="list-style-type: none"> 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:

Contacts and other locations –www.sick.com