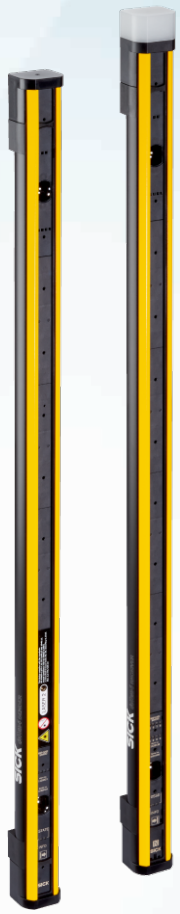
Product overview



deTem

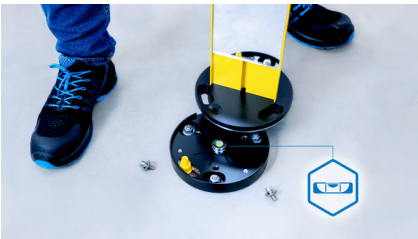
Efficient access protection

SICK
Sensor Intelligence.

Advantages

Produce quickly instead of losing time

The profitability of an investment begins with quick commissioning. The deTem safety light-beam sensors are ready to use in no time at all – thanks, among other things, to the integrated laser alignment aid and the intelligent column concept. Displays with multi-colored status LEDs and a top LED directly on the device provide additional support.



Simply aligned
Alignment is child's play for both single-sided and multi-sided access protection: like the device column, the mirror column is rotated and aligned directly on the base plate.

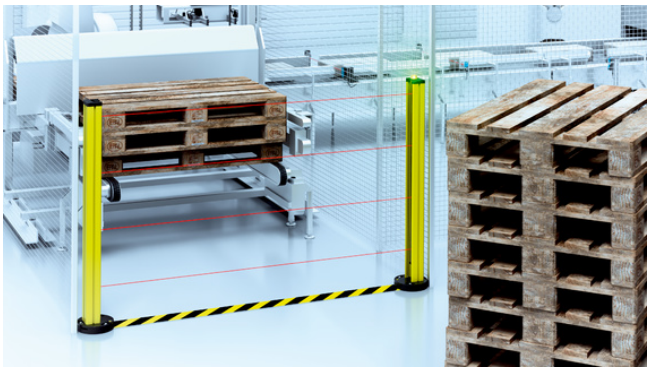
Precisely adjusted
The integrated laser alignment aid, which is visible at up to 90 m, and the micro-alignment function ensure precise alignment of the deTem devices.

Ready for immediate use
All deTem variants are equipped with standardized connections, brackets and accessories to ensure they are ready for use quickly. The wiring is standardized with M12 connectors.

Revolutionary simple alignment concept

SINGLE-SIDED, MULTI-SIDED, VERSATILE

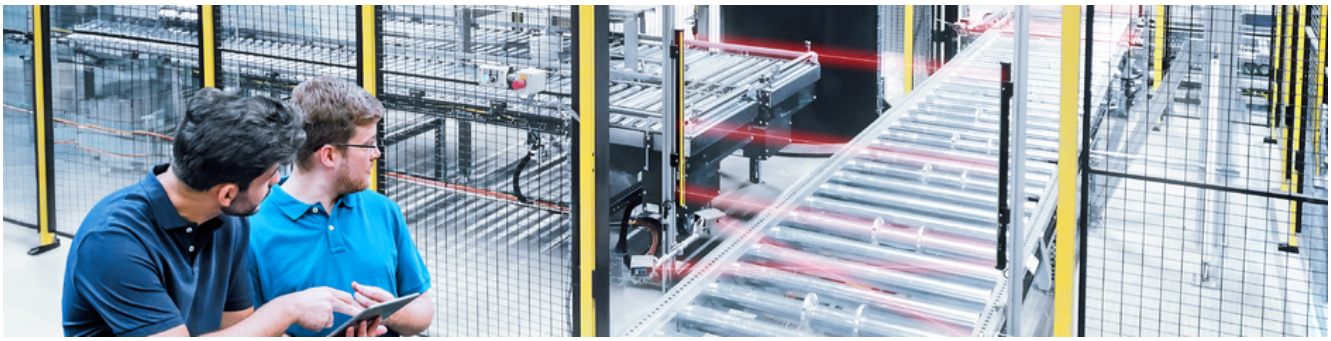
The deTem safety light-beam sensors are particularly economical for protecting large areas and access means. They monitor access to a hazardous area that people enter regularly but not frequently, e.g., to interact with a machine. Simply select the ideal function package for you according to the situation on-site and the required scanning range.



Access protection up to 7 m
The deTem A/P variants are ideal for protecting small access means. These consist of an active part with a sender and receiver unit, and a passive, cable-free part. This minimizes the installation effort and increases the cost-effectiveness.

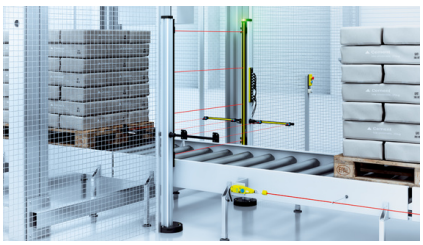
Single and multi-sided access protection up to 90 m
The long-range deTem Core and deTem4 variants are suitable for protecting large access points. For multi-sided access protection, mirror columns are used as well.

CUSTOMIZED ACCESS PROTECTION



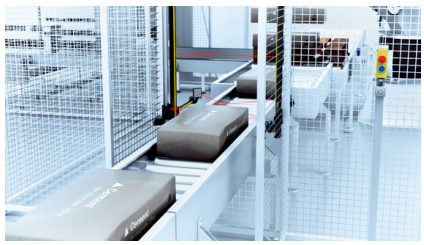
Muting solutions for a continuous material flow

deTem safety light-beam sensors with intelligent differentiation between person and material protect people without machines stopping or having to be stopped unnecessarily. The material flows smoothly, which ensures high productivity.



Flexible 2- or 4-signal muting
With the deTem4 A/P and DMM4 muting module, you can freely configure the muting parameters of your application using the Safety Designer software.
To the video “Flexibly configurable 2-/4-signal muting with DMM4”

Pre-configured complete muting kit
With the deTem4 LT Muting A/P, you get a complete plug-and-play kit for plants with pallet conveyor systems. The kit includes pre-installed and aligned muting sensors.

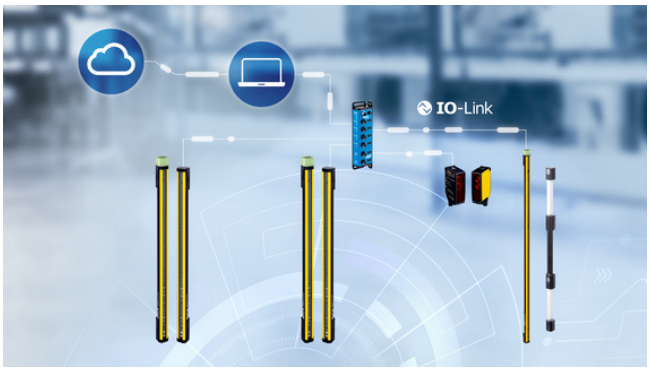


Simple 2-signal muting
Benefit from economically attractive X or L muting by combining the deTem4 A/P, SP2 system plug, and muting connector.

High productivity with tailored muting variants

Secure your connection to the future

Remote or on-site diagnosis? You decide. IO-Link and NFC provide reliable support in all cases. You have direct access to service and process data for efficient error analysis and continuous process optimization. In this way you will be ready for the future when it comes to safety and automation.



Safety and automation combined
Increase system productivity with fast error analyses and process optimizations. Diagnostic data can be read out in real time and from any location via IO-Link. This provides you with comprehensive sensor data for improved maintenance and process optimization, which increases system productivity.

Diagnostics by smartphone
Using the NFC interface and the SICK Safety Assistant app, you can access data directly on the device via smartphone. No time-consuming connection facility is required. In combination with the DIP switch wizard, you can quickly configure deTem and obtain information for diagnostic purposes.
To the SICK Safety Assistant App video

Fast troubleshooting, reduced maintenance effort and optimized processes

For specific environments: special deTem variants

The requirements on safety multibeam sensors are different depending on the industry. In food production and processing, hygiene standards are paramount, while in explosive areas, high ruggedness and reliable ignition protection are required. For this reason, SICK has developed various deTem versions that are specially adapted to the different industry requirements and at the same time offer high flexibility and productivity.

For hygiene-sensitive areas
Access protection for areas with high hygiene standards is provided by the IP69K variants: the housings of the photoelectric sensors are easy to clean. They are made from food-friendly plastic and stainless steel. deTem IP69K variants meet Ecolab and Diversey certifications.

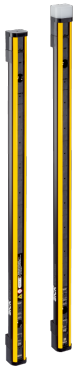
In explosive environments
Explosion-proof deTem variants are IECEx and ATEX certified and suitable for the following fields of application:
Zone 1/21: deTem4 Core Ex in a fully assembled and pressure-resistant, enclosed explosion-proof housing (Ex II 2GD).
Zone 2/22: deTem variants Ex II 3GD with extended ignition protection and special mechanical resilience.

For the individual requirements of your industry: reliable protection for specific environments

Ordered today. Already on the way. With the QuickShip program from SICK.

Whether it be planning new machinery or shortening unplanned downtimes in existing plants – fast availability of products ensures your economic success. That is why many SICK sensors are included in our QuickShip program and can now be shipped to you even faster.

Faster delivery of many product variants thanks to QuickShip



Technical data overview

Safety level	PL c, SIL 1, Type 2 PL e, SIL 3, Type 4
Scanning range	3.2 m ... 90 m (depends on variant)
Number of beams	1 ... 4 (depends on variant)
Beam separation	300 mm ... 500 mm (depends on variant)
Integrated laser alignment aid	– / ✓ (depends on variant)
End cap with integrated LED	– / ✓ (depends on variant)
Enclosure rating	IP65 IP67 IP66 IP69K (depends on variant)
Ambient operating temperature	–30 °C ... +55 °C (depends on variant)

Product description

The deTem safety light-beam sensor offers high flexibility and efficiency in access protection and human-material differentiation in automated material flows. Useful functions of the safety light-beam sensor simplify and speed up the alignment process, thereby saving time during installation. The NFC and IO-Link interfaces form the digital basis for error and cause analysis. This can be carried out both on site and remotely. SICK also provides scalable function packages: from Core variants to flexibly configurable muting. Choose what best suits your requirements and move into the future with confidence.

At a glance

- Large scanning range: up to 90 m in a compact housing
- Integrated alignment aids: Status LEDs and alignment laser with a visibility of 90 m
- Remote and on-site diagnosis via IO-Link and NFC
- Flexible 2- and 4-signal muting
- Core variants for cost-efficient protection
- Standardized connection, operating and accessories concept

Your benefits

- With deTem, you can flexibly and efficiently protect single- and multi-sided access means to hazardous areas
- The safety light-beam sensors are quick and easy to align, saving you valuable time
- Combine safety with automation and also use sensor data for upstream and downstream processes
- Wide range of options for smart differentiation between man and material
- Scalable function packages give you the choice: from Core variants to flexibly configurable muting
- Consistent implementation in your machine design: deTem and deTec are based on a standardized platform

Fields of application

- Single and multi-sided access protection
- Access protection with human-material differentiation for automated material flows (muting)

Ordering information

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

deTem2 Core

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection
- **Safety level:** PL c, SIL 1, Type 2
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
–	2	500 mm	Receiver	M2C-EA02500A10	1085564
	3	400 mm	Receiver	M2C-EA03400A10	1085567
	4	300 mm	Receiver	M2C-EA04300A10	1085570
17 m	2	500 mm	Sender	M2C-SA0250LA10	1085562
	3	400 mm	Sender	M2C-SA0340LA10	1085565
	4	300 mm	Sender	M2C-SA0430LA10	1085568
90 m	2	500 mm	Sender	M2C-SA0250HA10	1085563
	3	400 mm	Sender	M2C-SA0340HA10	1085566
	4	300 mm	Sender	M2C-SA0430HA10	1085569

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection, Single-sided access protection, Multi-sided access protection
- **Safety level:** PL c, SIL 1, Type 2
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
17 m	2	500 mm	Receiver	M2C-EA02500A10	1085564
			Sender	M2C-SA0250LA10	1085562
	3	400 mm	Receiver	M2C-EA03400A10	1085567
			Sender	M2C-SA0340LA10	1085565
	4	300 mm	Receiver	M2C-EA04300A10	1085570
			Sender	M2C-SA0430LA10	1085568
90 m	2	500 mm	Receiver	M2C-EA02500A10	1085564
			Sender	M2C-SA0250HA10	1085563
	3	400 mm	Receiver	M2C-EA03400A10	1085567
			Sender	M2C-SA0340HA10	1085566
	4	300 mm	Receiver	M2C-EA04300A10	1085570
			Sender	M2C-SA0430HA10	1085569

deTem4 Core

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
–	2	500 mm	Receiver	M4C-EA02500A10	1082686
	3	400 mm	Receiver	M4C-EA03400A10	1082689
	4	300 mm	Receiver	M4C-EA04300A10	1082692
17 m	2	500 mm	Sender	M4C-SA0250LA10	1082684
	3	400 mm	Sender	M4C-SA0340LA10	1082687
	4	300 mm	Sender	M4C-SA0430LA10	1082690
90 m	2	500 mm	Sender	M4C-SA0250HA10	1082685
	3	400 mm	Sender	M4C-SA0340HA10	1082688
	4	300 mm	Sender	M4C-SA0430HA10	1082691

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection, Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
17 m	2	500 mm	Receiver	M4C-EA02500A10	1082686
			Sender	M4C-SA0250LA10	1082684
	3	400 mm	Receiver	M4C-EA03400A10	1082689
			Sender	M4C-SA0340LA10	1082687
	4	300 mm	Receiver	M4C-EA04300A10	1082692
			Sender	M4C-SA0430LA10	1082690
90 m	2	500 mm	Receiver	M4C-EA02500A10	1082686
			Sender	M4C-SA0250HA10	1082685
	3	400 mm	Receiver	M4C-EA03400A10	1082689
			Sender	M4C-SA0340HA10	1082688
	4	300 mm	Receiver	M4C-EA04300A10	1082692
			Sender	M4C-SA0430HA10	1082691

deTem2 Core A/P

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection
- **Safety level:** PL c, SIL 1, Type 2
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67
- **System part:** Active unit

Scanning range	Number of beams	Beam separation	Type	Part no.
3.2 m	2	500 mm	M2C-ZA02500C10	1102646
7 m	4	300 mm	M2C-ZA04300C10	1102647

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection, Single-sided access protection, Multi-sided access protection
- **Safety level:** PL c, SIL 1, Type 2
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
3.2 m	2	500 mm	Active unit	M2C-ZA02500C10	1102646
			Passive unit	PSN01-2501	1101921
8 m	2	500 mm	Active unit	M2C-ZA02500C10	1102646
3.2 m	4	300 mm	Passive unit	PSN02-2301	1102144
			Active unit	M2C-ZA04300C10	1102647
7 m	4	300 mm	Active unit	M2C-ZA04300C10	1102647
			Passive unit	PSN02-3301	1103067
8 m	2	500 mm	Passive unit	PSN01-3501	1103066

deTem4 Core A/P

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67
- **System part:** Active unit

Scanning range	Number of beams	Beam separation	Type	Part no.
3.2 m	2	500 mm	M4C-ZA02500C10	1102644
7 m	4	300 mm	M4C-ZA04300C10	1102645

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection, Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
3.2 m	2	500 mm	Active unit	M4C-ZA02500C10	1102644
			Passive unit	PSN01-2501	1101921
8 m	2	500 mm	Active unit	M4C-ZA02500C10	1102644
3.2 m	4	300 mm	Passive unit	PSN02-2301	1102144
			Active unit	M4C-ZA04300C10	1102645
7 m	4	300 mm	Active unit	M4C-ZA04300C10	1102645
			Passive unit	PSN02-3301	1103067
8 m	2	500 mm	Passive unit	PSN01-3501	1103066

deTem2 Core IP69K

- **Application:** Areas with special hygiene requirements
- **Safety task:** Single-sided access protection, Multi-sided access protection
- **Safety level:** PL c, SIL 1, Type 2
- **Function range:** protective operation
- **Connection type:** connecting cable, 5-wire
- **Enclosure rating:** IP65, IP66, IP67, IP69K

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
15.5 m	2	500 mm	Sender	M2C-SB0250LA10	1089984
			Receiver	M2C-EB02500A10	1089985
	3	400 mm	Sender	M2C-SB0340LA10	1089986
			Receiver	M2C-EB03400A10	1089987
	4	300 mm	Sender	M2C-SB0430LA10	1089988
			Receiver	M2C-EB04300A10	1089989

- **Application:** Areas with special hygiene requirements
- **Safety task:** Single-sided access protection, Multi-sided access protection, Single-sided access protection, Multi-sided access protection
- **Safety level:** PL c, SIL 1, Type 2
- **Function range:** protective operation
- **Connection type:** connecting cable, 5-wire
- **Enclosure rating:** IP65, IP66, IP67, IP69K, IP65, IP66, IP67, IP69K, IP65, IP66, IP67, IP69K, IP65, IP66, IP67, IP69K

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
15.5 m	2	500 mm	Receiver	M2C-EB02500A10	1089985
			Sender	M2C-SB0250LA10	1089984
	3	400 mm	Receiver	M2C-EB03400A10	1089987
			Sender	M2C-SB0340LA10	1089986
	4	300 mm	Receiver	M2C-EB04300A10	1089989
			Sender	M2C-SB0430LA10	1089988

deTem4 Core IP69K

- **Application:** Areas with special hygiene requirements
- **Safety task:** Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** connecting cable, 5-wire
- **Enclosure rating:** IP65, IP66, IP67, IP69K

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
15.5 m	2	500 mm	Sender	M4C-SB0250LA10	1089977
			Receiver	M4C-EB02500A10	1089978
	3	400 mm	Sender	M4C-SB0340LA10	1089979
			Receiver	M4C-EB03400A10	1089980
	4	300 mm	Sender	M4C-SB0430LA10	1089981
			Receiver	M4C-EB04300A10	1089982

- **Application:** Areas with special hygiene requirements
- **Safety task:** Single-sided access protection, Multi-sided access protection, Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** connecting cable, 5-wire
- **Enclosure rating:** IP65, IP66, IP67, IP69K, IP65, IP66, IP67, IP69K, IP65, IP66, IP67, IP69K, IP65, IP66, IP67, IP69K

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
15.5 m	2	500 mm	Receiver	M4C-EB02500A10	1089978
			Sender	M4C-SB0250LA10	1089977
	3	400 mm	Receiver	M4C-EB03400A10	1089980
			Sender	M4C-SB0340LA10	1089979
	4	300 mm	Receiver	M4C-EB04300A10	1089982
			Sender	M4C-SB0430LA10	1089981

deTem2 Core Ex II 3GD

- **Application:** Explosive areas
- **Safety task:** Single-sided access protection, Multi-sided access protection
- **Safety level:** PL c, SIL 1, Type 2
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
–	2	500 mm	Receiver	M2C-EX02500A10	1093899
	3	400 mm	Receiver	M2C-EX03400A10	1093903
	4	300 mm	Receiver	M2C-EX04300A10	1093909
17 m	2	500 mm	Sender	M2C-SX0250LA10	1093813
	3	400 mm	Sender	M2C-SX0340LA10	1093900
	4	300 mm	Sender	M2C-SX0430LA10	1093904
90 m	2	500 mm	Sender	M2C-SX0250HA10	1093898
	3	400 mm	Sender	M2C-SX0340HA10	1093902
	4	300 mm	Sender	M2C-SX0430HA10	1093906

- **Application:** Explosive areas
- **Safety task:** Single-sided access protection, Multi-sided access protection, Single-sided access protection, Multi-sided access protection
- **Safety level:** PL c, SIL 1, Type 2
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
17 m	2	500 mm	Receiver	M2C-EX02500A10	1093899
			Sender	M2C-SX0250LA10	1093813
	3	400 mm	Receiver	M2C-EX03400A10	1093903
			Sender	M2C-SX0340LA10	1093900
	4	300 mm	Receiver	M2C-EX04300A10	1093909
			Sender	M2C-SX0430LA10	1093904
90 m	2	500 mm	Receiver	M2C-EX02500A10	1093899
			Sender	M2C-SX0250HA10	1093898
	3	400 mm	Receiver	M2C-EX03400A10	1093903
			Sender	M2C-SX0340HA10	1093902
	4	300 mm	Receiver	M2C-EX04300A10	1093909
			Sender	M2C-SX0430HA10	1093906

deTem4 Core Ex II 3GD

- **Application:** Explosive areas
- **Safety task:** Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
–	2	500 mm	Receiver	M4C-EX02500A10	1092041
	3	400 mm	Receiver	M4C-EX03400A10	1092044
	4	300 mm	Receiver	M4C-EX04300A10	1092047
17 m	2	500 mm	Sender	M4C-SX0250LA10	1092039
	3	400 mm	Sender	M4C-SX0340LA10	1092042
	4	300 mm	Sender	M4C-SX0430LA10	1092045
90 m	2	500 mm	Sender	M4C-SX0250HA10	1092040
	3	400 mm	Sender	M4C-SX0340HA10	1092043
	4	300 mm	Sender	M4C-SX0430HA10	1092046

- **Application:** Explosive areas
- **Safety task:** Single-sided access protection, Multi-sided access protection, Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** Plug, M12, 5-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
17 m	2	500 mm	Receiver	M4C-EX02500A10	1092041
			Sender	M4C-SX0250LA10	1092039
	3	400 mm	Receiver	M4C-EX03400A10	1092044
			Sender	M4C-SX0340LA10	1092042
	4	300 mm	Receiver	M4C-EX04300A10	1092047
			Sender	M4C-SX0430LA10	1092045
90 m	2	500 mm	Receiver	M4C-EX02500A10	1092041
			Sender	M4C-SX0250HA10	1092040
	3	400 mm	Receiver	M4C-EX03400A10	1092044
			Sender	M4C-SX0340HA10	1092043
	4	300 mm	Receiver	M4C-EX04300A10	1092047
			Sender	M4C-SX0430HA10	1092046

deTem4 Core Ex

- **Application:** Explosive areas
- **Safety task:** Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** connecting cable, 5-wire
- **Enclosure rating:** IP65, IP66
- **Note:** Sensor pre-assembled in explosion-proof enclosure including connecting cable (30 m, 5-wire, flying leads). Depending on national regulations and requirements, a cable gland may have to be installed. The cable gland is available as an accessory., Sensor pre-assembled in explosion-proof enclosure including connecting cable (30 m, 5-wire, flying leads). Depending on national regulations and requirements, a cable gland may have to be installed. The cable gland is available as an accessory.

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
–	2	500 mm	Receiver	EXE-06D0250A020	1097716
	3	400 mm	Receiver	EXE-09D0340A020	1097719
	4	300 mm	Receiver	EXE-12D0430A020	1097722
14.2 m	2	500 mm	Sender	EXS-06D0250A020	1097717
			Pair	EXP-06D0250A020	1097715
	3	400 mm	Sender	EXS-09D0340A020	1097720
			Pair	EXP-09D0340A020	1097718
	4	300 mm	Sender	EXS-12D0430A020	1097723
			Pair	EXP-12D0430A020	1097721

- **Application:** Explosive areas
- **Safety task:** Single-sided access protection, Multi-sided access protection, Single-sided access protection, Multi-sided access protection
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation
- **Connection type:** connecting cable, 5-wire
- **Enclosure rating:** IP65, IP66
- **Note:** Sensor pre-assembled in explosion-proof enclosure including connecting cable (30 m, 5-wire, flying leads). Depending on national regulations and requirements, a cable gland may have to be installed. The cable gland is available as an accessory., Sensor pre-assembled in explosion-proof enclosure including connecting cable (30 m, 5-wire, flying leads). Depending on national regulations and requirements, a cable gland may have to be installed. The cable gland is available as an accessory.

Scanning range	Number of beams	Beam separation	System part	Type	Part no.
14.2 m	2	500 mm	Receiver	EXE-06D0250A020	1097716
			Sender	EXS-06D0250A020	1097717
	3	400 mm	Receiver	EXE-09D0340A020	1097719
			Sender	EXS-09D0340A020	1097720
	4	300 mm	Receiver	EXE-12D0430A020	1097722
			Sender	EXS-12D0430A020	1097723

deTem4

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection, Differentiation between person and material
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material
- **Connection type:** depending on system plug (M12 male connector, 5-pin or 8-pin)
- **Enclosure rating:** IP65, IP67
- **Note:** The system plug has to be ordered separately. For details, see “Accessories”., The system plug has to be ordered separately. For details, see “Accessories”.

Scanning range	Number of beams	Beam separation	Laser alignment aid	Top LED	System part	Type	Part no.
90 m	1	–	✓	–	Sender	M4P-SA01000B00	1128430
			–	–	Sender	M4P-SA01000A00	1128426
				–	Receiver	M4P-EA01000C00	1128434
	2	500 mm	✓	–	Sender	M4P-SA02500B00	1128431
			–	–	Sender	M4P-SA02500A00	1128427
				–	Receiver	M4P-EA02500C00	1128435
				✓	Receiver	M4P-EA02500D00	1128438
	3	400 mm	✓	–	Sender	M4P-SA03400B00	1128432
			–	–	Sender	M4P-SA03400A00	1128428
				–	Receiver	M4P-EA03400C00	1128436
				✓	Receiver	M4P-EA03400D00	1128439
	4	300 mm	✓	–	Sender	M4P-SA04300B00	1128433
			–	–	Sender	M4P-SA04300A00	1128429
				–	Receiver	M4P-EA04300C00	1128437
				✓	Receiver	M4P-EA04300D00	1128440

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Multi-sided access protection, Differentiation between person and material, Single-sided access protection, Multi-sided access protection, Differentiation between person and material, Single-sided access protection, Multi-sided access protection, Differentiation between person and material
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material, protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material, protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material, protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material, protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material
- **Connection type:** depending on system plug (M12 male connector, 5-pin or 8-pin)
- **Enclosure rating:** IP65, IP67
- **Note:** Scope of delivery of sender and receiver without system plug. The system plugs must be ordered separately. For details, see “Accessories”., Scope of delivery of sender and receiver without system plug. The system plugs must be ordered separately. For details, see “Accessories”.

Scanning range	Number of beams	Beam separation	Laser alignment aid	Top LED	System part	Type	Part no.
90 m	1	–	✓	–	Receiver	M4P-EA01000C00	1128434
					Sender	M4P-SA01000B00	1128430

Scanning range	Number of beams	Beam separation	Laser alignment aid	Top LED	System part	Type	Part no.
			–	–	Receiver	M4P-EA01000C00	1128434
					Sender	M4P-SA01000A00	1128426
	2	500 mm	✓	–	Receiver	M4P-EA02500C00	1128435
					Sender	M4P-SA02500B00	1128431
				✓	Receiver	M4P-EA02500D00	1128438
					Sender	M4P-SA02500B00	1128431
			–	–	Receiver	M4P-EA02500C00	1128435
					Sender	M4P-SA02500A00	1128427
				✓	Receiver	M4P-EA02500D00	1128438
					Sender	M4P-SA02500A00	1128427
	3	400 mm	✓	–	Receiver	M4P-EA03400C00	1128436
					Sender	M4P-SA03400B00	1128432
				✓	Receiver	M4P-EA03400D00	1128439
					Sender	M4P-SA03400B00	1128432
			–	–	Receiver	M4P-EA03400C00	1128436
					Sender	M4P-SA03400A00	1128428
				✓	Receiver	M4P-EA03400D00	1128439
					Sender	M4P-SA03400A00	1128428
	4	300 mm	✓	–	Receiver	M4P-EA04300C00	1128437
					Sender	M4P-SA04300B00	1128433
				✓	Receiver	M4P-EA04300D00	1128440
					Sender	M4P-SA04300B00	1128433
			–	–	Receiver	M4P-EA04300C00	1128437
					Sender	M4P-SA04300A00	1128429
				✓	Receiver	M4P-EA04300D00	1128440
					Sender	M4P-SA04300A00	1128429

deTem4 A/P

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Differentiation between person and material
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material
- **Connection type:** depending on system plug (M12 male connector, 5-pin or 8-pin)
- **Enclosure rating:** IP65, IP67
- **Note:** The system plug has to be ordered separately. For details, see “Accessories”., The system plug has to be ordered separately. For details, see “Accessories”.
- **System part:** Active unit

Scanning range	Number of beams	Beam separation	Top LED	Type	Part no.
3.2 m	2	500 mm	–	M4P-ZA02500C00	1102633
			✓	M4P-ZA02500D00	1102635
7 m	4	300 mm	–	M4P-ZA04300C00	1102634
			✓	M4P-ZA04300D00	1102636

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Differentiation between person and material
- **Function range:** protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material
- **Enclosure rating:** IP65, IP67
- **System part:** Passive unit

Scanning range	Number of beams	Beam separation	Type	Part no.
3.2 m	2	500 mm	PSN01-2501	1101921
	4	300 mm	PSN02-2301	1102144

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Differentiation between person and material
- **Function range:** protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material
- **System part:** Passive unit

Scanning range	Number of beams	Beam separation	Type	Part no.
7 m	4	300 mm	PSN02-3301	1103067
8 m	2	500 mm	PSN01-3501	1103066

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Differentiation between person and material, Single-sided access protection, Differentiation between person and material, Single-sided access protection, Differentiation between person and material
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material, protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material, protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material, protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material, protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material
- **Connection type:** depending on system plug (M12 male connector, 5-pin or 8-pin)
- **Enclosure rating:** IP65, IP67
- **Note:** The system plug has to be ordered separately. For details, see “Accessories”., The system plug has to be ordered separately. For details, see “Accessories”.

Scanning range	Number of beams	Beam separation	Top LED	System part	Type	Part no.
3.2 m	2	500 mm	–	Active unit	M4P-ZA02500C00	1102633
				Passive unit	PSN01-2501	1101921
8 m	2	500 mm	–	Active unit	M4P-ZA02500C00	1102633
3.2 m	2	500 mm	✓	Active unit	M4P-ZA02500D00	1102635
				Passive unit	PSN01-2501	1101921
8 m	2	500 mm	✓	Active unit	M4P-ZA02500D00	1102635
3.2 m	4	300 mm	–	Passive unit	PSN02-2301	1102144
			✓	Passive unit	PSN02-2301	1102144
			–	Active unit	M4P-ZA04300C00	1102634
7 m	4	300 mm	–	Active unit	M4P-ZA04300C00	1102634
				Passive unit	PSN02-3301	1103067
3.2 m	4	300 mm	✓	Active unit	M4P-ZA04300D00	1102636
7 m	4	300 mm	✓	Active unit	M4P-ZA04300D00	1102636
				Passive unit	PSN02-3301	1103067
8 m	2	500 mm	–	Passive unit	PSN01-3501	1103066
			✓	Passive unit	PSN01-3501	1103066

- **Application:** normal industrial environment
- **Safety task:** Single-sided access protection, Differentiation between person and material
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation, beam coding, restart interlock, external device monitoring (EDM), Differentiation between person and material
- **Connection type:** male connector M12, 8-pin
- **Enclosure rating:** IP65, IP67
- **Note:** Certificates, CAD and other downloads can be found with the components included with delivery., M4P-ZA04300D00 active unit (1102636), GL6G-P0211S98 muting sensors (2142441), Certificates, CAD and other downloads can be found with the components included with delivery., M4P-ZA04300D00 active unit (1102636), GL6G-P0211S98 muting sensors (2142441)

Scanning range	Number of beams	Beam separation	Top LED	System part	Type	Part no.
3.2 m	4	300 mm	✓	Muting system	M4PZ/DMM4/PP4 X-MUTING SET 4-BEAMS	1153558

deTem4 LT Muting A/P

- **Application:** normal industrial environment
- **Safety task:** Differentiation between person and material
- **Safety level:** PL e, SIL 3, Type 4
- **Function range:** protective operation, beam coding, restart interlock, Differentiation between person and material
- **Connection type:** male connector M12, 8-pin
- **Enclosure rating:** IP65, IP67

Scanning range	Number of beams	Beam separation	Top LED	Type	Part no.
3.2 m	4	300 mm	✓	L-muting left	1108692
				L-muting right	1108691
				T-muting	1110584

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