



Z-Sensor

Flexible, low-cost presence detection solutions with clear housings

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

| | |
|-------------------------------|--|
| Dimensions (W x H x D) | 13.6 mm x 34.8 mm x 23 mm 13.6 mm x 41.9 mm x 31.7 mm 13.6 mm x 41.9 mm x 21.9 mm 13.6 mm x 45.2 mm x 31.7 mm 13.6 mm x 34.8 mm x 21.9 mm 13.6 mm x 34.6 mm x 21.9 mm |
| Light source | LED |
| Type of light | Infrared light / visible red light (depending on type) |
| Enclosure rating | IP67 / IP65 (depending on type) |
| Housing material | Plastic |
| Adjustment | None |

Product description

The Z photoelectric sensor is a low-cost sensor for standard applications in conveyor lines, packaging machines, bin controls and hands-free systems. The sensor's transparent housing provides 360° status indication and has a straight cable outlet for easy connection. The Z1 and Z2 are offered in many different sensing ranges and are available in three variants: retro-reflective, background suppression and energetic. The eyeball-shaped housing of the Z3 allows for infinite adjustability and the indicator LED to be seen from 360° around the device.

At a glance

- Economical design with background suppression, retro-reflective or energetic variants available; non-adjustable
- Compact, transparent housing with 360° status indication
- M18 front mount and 24-25.4 mm slotted side through holes compatible with competitor devices
- Spherical eyeball-style housing with 24 mm ball mount allows for infinite adjustability (depending on type)
- Connection system: straight or angled cable outlet (60°) or M12 or M8 connector outlet
- IP 67 enclosure rating for harsh environments

Your benefits

- High performance at a low cost
- Clear housing provides highly visible 360° of status indication, which simplifies troubleshooting
- Simple and unique mounting options lower installation costs
- Small size fits applications with limited space
- Customization options reduce material and labor costs
- Compatibility with competitor products for easy integration into existing systems

Ordering information

Other models and accessories → www.sick.com/Z-Sensor

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Energetic
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** Infrared light

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|------------------------------------|--------------------------|------------|--|--------------|----------|
| 1 mm ... 100 mm | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-N4221 | 1045582 |
| | | | | ZT2-N4221 | 1045427 |
| | | None | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-N4231 | 1045598 |
| | | | | ZT2-N4231 | 1045443 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-N4215 | 1045566 |
| | | | | ZT2-N4215 | 1045411 |
| | | | Male connector M12, 4-pin | ZT2-N4228 | 1045476 |
| | Male connector M8, 4-pin | ZT2-N4238 | 1045492 | | |
| | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-P4221 | 1045583 |
| | | | | ZT2-P4221 | 1045428 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-P4231 | 1045599 |
| | | | | ZT2-P4231 | 1045444 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-P4215 | 1045567 |
| | | | | ZT2-P4215 | 1045412 |
| Male connector M12, 4-pin | | | ZT2-P4228 | 1045477 | |
| Male connector M8, 4-pin | ZT2-P4238 | 1045493 | | | |
| 2 mm ... 150 mm 3 mm ... 100 mm | PNP | None | Cable, 3-wire, 2 m ¹⁾ | ZT4-P5215S01 | 1044281 |

¹⁾ Do not bend below 0 °C.

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|---------------------------|--------------------------|------------|--|-----------|----------|
| 5 mm ... 155 mm | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT2-N5221 | 1045419 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-N5231 | 1045590 |
| | | | | ZT2-N5231 | 1045435 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-N5215 | 1045558 |
| | | | | ZT2-N5215 | 1045403 |
| | | | Cable with connector RJ11, 6-pin, 0.5 m ¹⁾ | ZT1-N5772 | 1048340 |
| | | | Male connector M12, 4-pin | ZT2-N5228 | 1045468 |
| | Male connector M8, 4-pin | ZT2-N5238 | 1045484 | | |
| | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-P5221 | 1045575 |
| | | | | ZT2-P5221 | 1045420 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-P5231 | 1045591 |
| | | | | ZT2-P5231 | 1045436 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-P5215 | 1045559 |
| | | | | ZT2-P5215 | 1045404 |
| Male connector M12, 4-pin | | | ZT2-P5228 | 1045469 | |
| Male connector M8, 4-pin | ZT2-P5238 | 1045485 | | | |

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- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Energetic
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** Infrared light

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|------------------------------------|--------------------------|------------|--|--------------|----------|
| 1 mm ... 100 mm | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-E4221 | 1045585 |
| | | | | ZT2-E4221 | 1045430 |
| | | None | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-E4231 | 1045601 |
| | | | | ZT2-E4231 | 1045463 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-E4215 | 1045569 |
| | | | | ZT2-E4215 | 1045414 |
| | | | Male connector M12, 4-pin | ZT2-E4228 | 1045479 |
| | Male connector M8, 4-pin | ZT2-E4238 | 1045495 | | |
| | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-F4221 | 1045584 |
| | | | | ZT2-F4221 | 1045429 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-F4231 | 1045600 |
| | | | | ZT2-F4231 | 1045445 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-F4215 | 1045568 |
| | | | | ZT2-F4215 | 1045413 |
| Male connector M12, 4-pin | | | ZT2-F4228 | 1045478 | |
| Male connector M8, 4-pin | ZT2-F4238 | 1045494 | | | |
| 2 mm ... 150 mm 3 mm ... 100 mm | PNP | None | Cable, 3-wire, 2 m ¹⁾ | ZT4-F5215S02 | 1054290 |

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| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|---------------------------|--------------------------|------------|--|-----------|----------|
| 5 mm ... 155 mm | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-E5221 | 1045577 |
| | | | | ZT2-E5221 | 1045422 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-E5231 | 1045593 |
| | | | | ZT2-E5231 | 1045438 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-E5215 | 1045561 |
| | | | | ZT2-E5215 | 1045406 |
| | | | Male connector M12, 4-pin | ZT2-E5228 | 1045471 |
| | Male connector M8, 4-pin | ZT2-E5238 | 1045487 | | |
| | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-F5221 | 1045576 |
| | | | | ZT2-F5221 | 1045421 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-F5231 | 1045592 |
| | | | | ZT2-F5231 | 1045437 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-F5215 | 1045560 |
| | | | | ZT2-F5215 | 1045405 |
| Male connector M12, 4-pin | | | ZT2-F5228 | 1045470 | |
| Male connector M8, 4-pin | ZT2-F5238 | 1045486 | | | |

¹⁾ Do not bend below 0 °C.

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** Infrared light

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|---------------------------|------------------|------------|--|--------------|----------|
| 0 mm ... 50 mm | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-N3221 | 1045578 |
| | | | | ZT2-N3221 | 1045423 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT2-N3231 | 1045439 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-N3215 | 1045562 |
| | | | | ZT2-N3215 | 1045407 |
| | | | Male connector M12, 4-pin | ZT2-N3228 | 1045472 |
| | | | Male connector M8, 4-pin | ZT2-N3238 | 1045488 |
| | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-P3221 | 1045579 |
| | | | | ZT2-P3221 | 1045424 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-P3231 | 1045595 |
| | | | | ZT2-P3231 | 1045440 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-P3215 | 1045563 |
| | | | | ZT2-P3215 | 1045408 |
| | | | Cable, 3-wire, 5 m ¹⁾ | ZT2-P3210S01 | 1052607 |
| Male connector M12, 4-pin | ZT2-P3228 | 1045473 | | | |
| Male connector M8, 4-pin | ZT2-P3238 | 1045489 | | | |

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- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** Infrared light

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|---------------------------|--------------------------|------------|--|-----------|----------|
| 0 mm ... 50 mm | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-E3221 | 1045581 |
| | | | | ZT2-E3221 | 1045426 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-E3231 | 1045597 |
| | | | | ZT2-E3231 | 1045442 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-E3215 | 1045565 |
| | | | | ZT2-E3215 | 1045410 |
| | | | Male connector M12, 4-pin | ZT2-E3228 | 1045475 |
| | Male connector M8, 4-pin | ZT2-E3238 | 1045491 | | |
| | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-F3221 | 1045580 |
| | | | | ZT2-F3221 | 1045425 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-F3231 | 1045596 |
| | | | | ZT2-F3231 | 1045441 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-F3215 | 1045564 |
| | | | | ZT2-F3215 | 1045409 |
| Male connector M12, 4-pin | | | ZT2-F3228 | 1045474 | |
| Male connector M8, 4-pin | ZT2-F3238 | 1045490 | | | |

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- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Energetic
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** visible red light

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|---------------------------|--------------------------|------------|--|-----------|----------|
| 5 mm ... 60 mm | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-E2221 | 1045573 |
| | | | | ZT2-E2221 | 1045418 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-E2231 | 1045589 |
| | | | | ZT2-E2231 | 1045434 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-E2215 | 1045557 |
| | | | | ZT2-E2215 | 1045402 |
| | | | Male connector M12, 4-pin | ZT2-E2228 | 1045467 |
| | Male connector M8, 4-pin | ZT2-E2238 | 1045483 | | |
| | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-F2221 | 1045572 |
| | | | | ZT2-F2221 | 1045417 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-F2231 | 1045588 |
| | | | | ZT2-F2231 | 1045433 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-F2215 | 1045556 |
| | | | | ZT2-F2215 | 1045401 |
| Male connector M12, 4-pin | | | ZT2-F2228 | 1045466 | |
| Male connector M8, 4-pin | ZT2-F2238 | 1045482 | | | |

¹⁾ Do not bend below 0 °C.

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Energetic
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** visible red light

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|---------------------------|---------------------------|------------|--|-----------|----------|
| 5 mm ... 60 mm | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-N2221 | 1045570 |
| | | | | ZT2-N2221 | 1045415 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-N2231 | 1045586 |
| | | | | ZT2-N2231 | 1045431 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-N2215 | 1045554 |
| | | | | ZT2-N2215 | 1045399 |
| | Male connector M12, 4-pin | ZT2-N2228 | 1045464 | | |
| | Male connector M8, 4-pin | ZT2-N2238 | 1045480 | | |
| | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZT1-P2221 | 1045571 |
| | | | | ZT2-P2221 | 1045416 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZT1-P2231 | 1045587 |
| | | | | ZT2-P2231 | 1045432 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZT1-P2215 | 1045555 |
| | | | | ZT2-P2215 | 1045400 |
| Male connector M12, 4-pin | ZT2-P2228 | 1045465 | | | |
| Male connector M8, 4-pin | ZT2-P2238 | 1045481 | | | |

¹⁾ Do not bend below 0 °C.

- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** Dual lens
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** visible red light

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|--------------------|------------------|------------|--|-----------|----------|
| 0.1 m ... 4.8 m | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZL1-E2421 | 1045503 |
| | | | | ZL2-E2421 | 1045394 |
| | | | | ZL3-E2421 | 1045536 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZL1-E2431 | 1045507 |
| | | | | ZL2-E2431 | 1045398 |
| | | | | ZL3-E2431 | 1045540 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZL1-E2415 | 1045499 |
| | | | | ZL2-E2415 | 1045390 |

¹⁾ Do not bend below 0 °C.

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|--------------------------|------------------|------------|--|-----------------|----------|
| | | | | ZL3-E2415 | 1045532 |
| | | | Cable with connector RJ11, 6-pin, 3 m ¹⁾ | ZL1-E2277 | 1042621 |
| | | | Male connector M12, 4-pin | ZL2-E2428 | 1045372 |
| | | | Male connector M8, 4-pin | ZL2-E2438 | 1045386 |
| | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZL1-F2421 | 1045502 |
| | | | | ZL2-F2421 | 1045393 |
| | | | | ZL3-F2421 | 1045535 |
| | | | Cable with M12 male connector, 4-pin, 2 m ¹⁾ | ZL3-F2425 | 1066618 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZL1-F2431 | 1045506 |
| | | | | ZL2-F2431 | 1045397 |
| | | | | ZL3-F2431 | 1045539 |
| | | | Cable with WAGO terminal 733-103, 0.5 m ¹⁾ | ZL1-F2262 | 1042261 |
| | | | Cable with WAGO terminal 733-103, 800 mm ¹⁾ | ZL1-F2460S03P03 | 1044596 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZL1-F2415 | 1045498 |
| | | | | ZL2-F2415 | 1045389 |
| | | | | ZL3-F2415 | 1045531 |
| | | | Cable, 3-wire, 3 m ¹⁾ | ZL1-F2417 | 1048180 |
| | | | Cable, 4-wire, 2 m ¹⁾ | ZL1-F2715 | 1042929 |
| | | | Male connector M12, 4-pin | ZL2-F2428 | 1045371 |
| | | | | ZL2-F2828 | 1043679 |
| Male connector M8, 4-pin | ZL2-F2438 | 1045385 | | | |

¹⁾ Do not bend below 0 °C.

- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** Dual lens
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** visible red light

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|--------------------|------------------|------------|--|--------------|----------|
| 0.05 m ... 2 m | PNP | None | Cable with connector M8, 3-pin, 500 mm ¹⁾ | ZL7-P2400S01 | 1046191 |

¹⁾ Do not bend below 0 °C.

| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. |
|---|------------------|------------|--|--------------|----------|
| 0.1 m ... 4.8 m | NPN | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZL1-N2421 | 1045500 |
| | | | | ZL2-N2421 | 1045391 |
| | | | | ZL3-N2421 | 1045533 |
| | | | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZL1-N2431 | 1045504 |
| | | | | ZL2-N2431 | 1045395 |
| | | | | ZL3-N2431 | 1045537 |
| | | | Cable with Tyco connector, 2 m ¹⁾ | ZL1-N2600S02 | 1044003 |
| | | | Cable, 3-wire, 2 m ¹⁾ | ZL1-N2415 | 1045496 |
| | | | | ZL2-N2415 | 1045387 |
| | | | | ZL3-N2415 | 1045529 |
| | | | Cable, 4-wire, 2 m ¹⁾ | ZL1-N2615 | 1045339 |
| | | | 0.1 m ... 4.8 m | NPN | None |
| ZL1-N2272P01 | 2041590 | | | | |
| Cable with connector RJ11, 6-pin, 1.5 m ¹⁾ | ZL1-N2274 | 1041367 | | | |
| | ZL1-N2274P01 | 2041592 | | | |
| Cable with connector RJ11, 6-pin, 1 m ¹⁾ | ZL1-N2273 | 1041366 | | | |
| | ZL1-N2273P01 | 2041591 | | | |
| ZL2-N2873 | 1051430 | | | | |
| Cable with connector RJ11, 6-pin, 2.5 m ¹⁾ | ZL1-N2276 | 1041369 | | | |
| Cable with connector RJ11, 6-pin, 2 m ¹⁾ | ZL1-N2275 | 1041368 | | | |
| | ZL1-N2275P01 | 2041593 | | | |

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| Sensing range max. | Switching output | Adjustment | Connection type | Type | Part no. | | |
|--------------------|---|------------|---|--------------|--|-----------|---------|
| | | | Cable with connector RJ11, 6-pin, 3 m ¹⁾ | ZL1-N2277 | 1041370 | | |
| | | | | ZL1-N2277P01 | 2041595 | | |
| | | | Male connector M12, 4-pin | ZL2-N2428 | 1045369 | | |
| | | | Male connector M8, 4-pin | ZL2-N2438 | 1045383 | | |
| | | | PNP | None | Cable with M12 male connector, 4-pin, 150 mm ¹⁾ | ZL1-P2421 | 1045501 |
| | | | | | | ZL2-P2421 | 1045392 |
| | ZL3-P2421 | 1045534 | | | | | |
| | Cable with M12 male connector, 4-pin, 2 m ¹⁾ | ZL2-P2425 | | | 1047766 | | |
| | Cable with M8 male connector, 4-pin, 0.5 m ¹⁾ | ZL1-P2432 | | | 1044514 | | |
| | | ZL3-P1232 | | | 1041941 | | |
| | Cable with M8 male connector, 4-pin, 150 mm ¹⁾ | ZL1-P2431 | | | 1045505 | | |
| | | ZL2-P2431 | | | 1045396 | | |
| | | ZL3-P2431 | | | 1045538 | | |
| | Cable with M8 male connector, 4-pin, 500 mm ¹⁾ | ZL3-P2432 | | | 1078731 | | |
| | Cable, 3-wire, 0.5 m ¹⁾ | ZL2-P2412 | | | 1048514 | | |
| | Cable, 3-wire, 2 m ¹⁾ | ZL1-P2415 | | | 1045497 | | |
| | | ZL2-P2415 | | | 1045388 | | |
| | | ZL3-P2415 | | | 1045530 | | |
| | Cable, 3-wire, 3 m ¹⁾ | ZL1-P2417 | 1047864 | | | | |
| | Male connector M12, 4-pin | ZL2-P2428 | 1045370 | | | | |

¹⁾ Do not bend below 0 °C.

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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