



RS25-WF334000

RS25

CONTRAST SENSORS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

| Type | part no. |
|---------------|----------|
| RS25-WF334000 | 1062005 |

Included in delivery: RS25 - optical sensor head (1)

Other models and accessories → www.sick.com/RS25

Detailed technical data

Features

| | |
|---|-------------------------|
| Housing design | Middle |
| Dimensions (W x H x D) | 100 mm x 47 mm x 200 mm |
| Light source | LED, RGB |
| Sensing distance | ≤ 10 mm |
| Sensing distance tolerance | ± 1 mm |
| Start code | Configurable |
| Max. number of marks in the register | 20 |

Electronics

| | |
|----------------------------|---|
| Supply voltage | 12 V DC ... 30 V DC ¹⁾ |
| Ripple | ≤ 5 V _{pp} ²⁾ |
| Current consumption | < 250 mA ³⁾ |
| Accuracy | 40 μm |
| Time delay | None |
| Protection class | III ⁴⁾ |
| Circuit protection | U _V connections, reverse polarity protected Interference pulse suppression Outputs overcurrent and short-circuit protected |
| Connection type | Male connector M12, 4-pin |

¹⁾ Limit values when operated in short-circuit protected network: max. 8 A.

²⁾ May not fall below or exceed U_V tolerances.

³⁾ Without load.

⁴⁾ Reference voltage DC 50 V.

Mechanics

| | |
|-------------------------|----------|
| Housing material | Aluminum |
| Weight | 1,000 g |

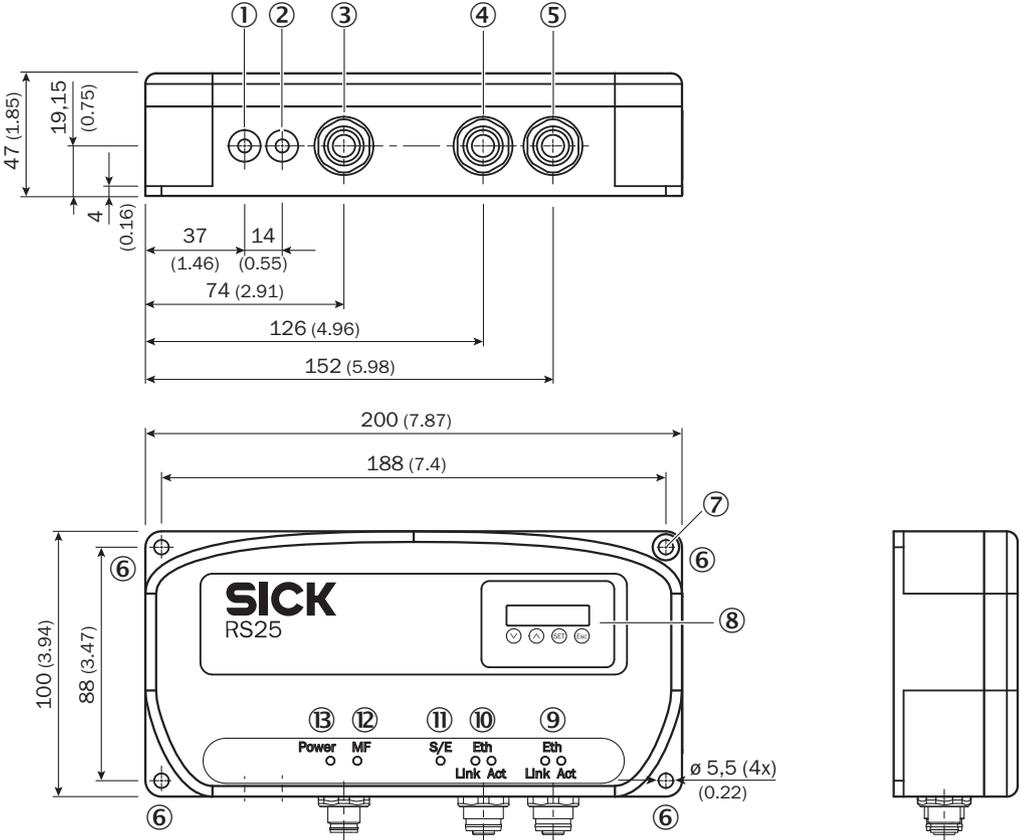
Ambient data

| | |
|--------------------------------------|------------------------|
| Ambient operating temperature | -10 °C ... +55 °C |
| Ambient temperature, storage | -20 °C ... +70 °C |
| Shock load | According to IEC 60068 |
| Enclosure rating | IP65 |

Classifications

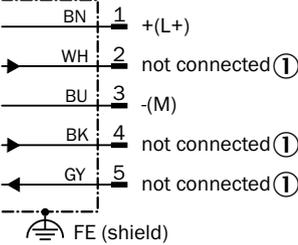
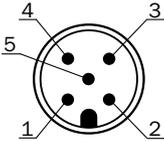
| | |
|-----------------------|----------|
| ECLASS 5.0 | 27270906 |
| ECLASS 5.1.4 | 27270906 |
| ECLASS 6.0 | 27270906 |
| ECLASS 6.2 | 27270906 |
| ECLASS 7.0 | 27270906 |
| ECLASS 8.0 | 27270906 |
| ECLASS 8.1 | 27270906 |
| ECLASS 9.0 | 27270906 |
| ECLASS 10.0 | 27270906 |
| ECLASS 11.0 | 27270906 |
| ECLASS 12.0 | 27270906 |
| ETIM 5.0 | EC001820 |
| ETIM 6.0 | EC001820 |
| ETIM 7.0 | EC001820 |
| ETIM 8.0 | EC001820 |
| UNSPSC 16.0901 | 39121528 |

Dimensional drawing: Evaluation unit



Connection type and diagram supply voltage

Voltage supply

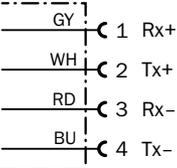


M12 (A-coded)

① Not connected

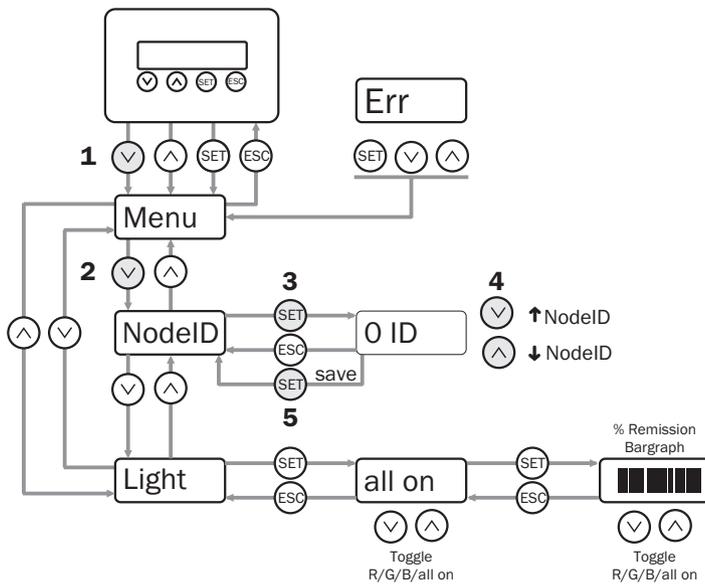
Ethernet POWERLINK M12, 4-pin

Ethernet POWERLINK



M12 (D-coded)

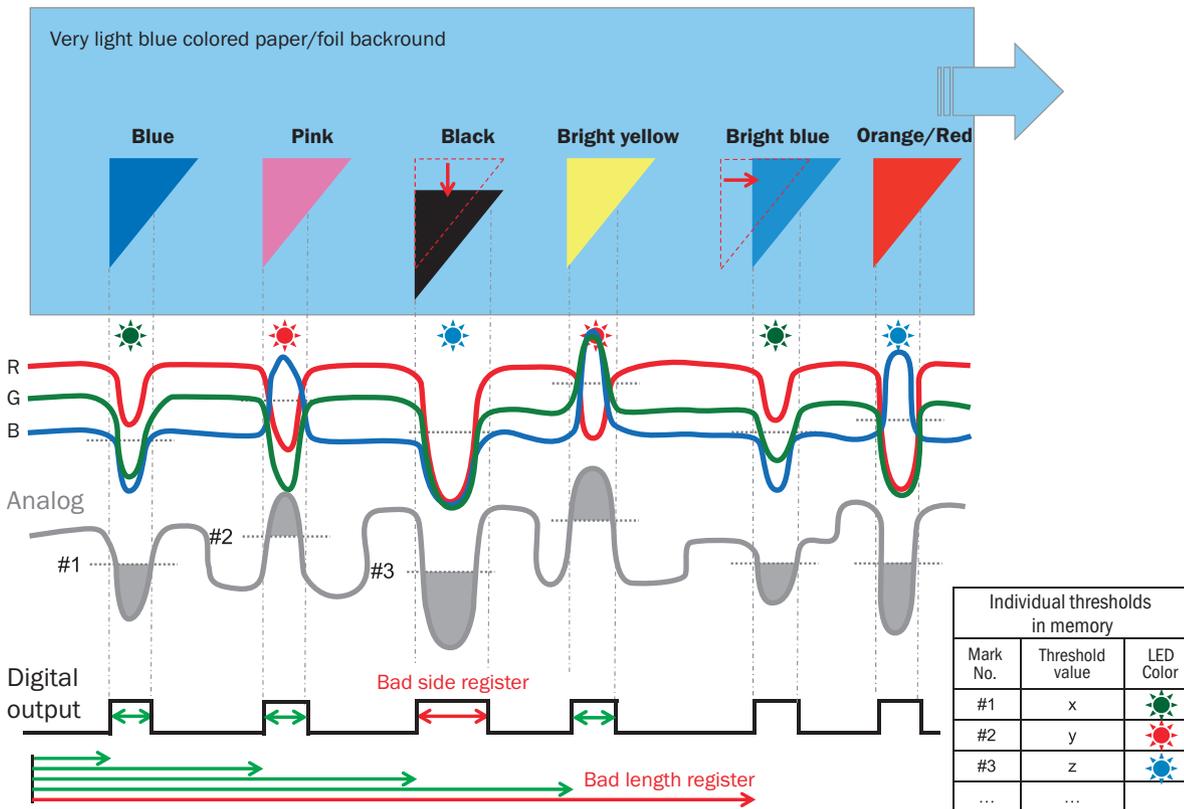
Flow diagram



6. Perform a restart. This is done by switching the supply voltage off and then on again after 5 seconds.

The register sensor is ready to communicate with the control (PLC).

Functional principle



Recommended accessories

Other models and accessories → www.sick.com/RS25

| | Brief description | Type | part no. |
|---|---|---------------------|----------|
| connectors and cables | | | |
|  | <ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, RJ45, 8-pin, straight • Signal type: Ethernet • Cable: 10 m, 4-wire, AWG26, PUR, halogen-free • Description: Ethernet, twisted pair, shielded | YM2D24-100EA1M-RJA4 | 6030928 |
|  | <ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, RJ45, 8-pin, straight • Signal type: Ethernet • Cable: 20 m, 4-wire, AWG26, PUR, halogen-free • Description: Ethernet, twisted pair, shielded | YM2D24-200EA1M-RJA4 | 6036158 |
|  | <ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, RJ45, 8-pin, straight • Signal type: PROFINET • Cable: 25 m, 4-wire, AWG22, PUR, halogen-free • Description: PROFINET, shielded • Application: Robot | SSL-2J04-G25ME | 6033555 |
|  | <ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, RJ45, 8-pin, straight • Signal type: PROFINET • Cable: 5 m, 4-wire, AWG22, PUR, halogen-free • Description: PROFINET, shielded | SSL-2J04-G05MZ | 6035389 |
|  | <ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, M12, 4-pin, straight, D-coded • Signal type: Ethernet • Cable: 2 m, 4-wire, CAT5, CAT5e, PUR, halogen-free • Description: Ethernet, shielded | SSL-1204-G02ME90 | 6045222 |
|  | <ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, M12, 4-pin, straight, D-coded • Signal type: Ethernet • Cable: 5 m, 4-wire, CAT5, CAT5e, PUR, halogen-free • Description: Ethernet, shielded | SSL-1204-G05ME90 | 6045277 |
|  | <ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, M12, 4-pin, straight, D-coded • Signal type: Ethernet • Cable: 10 m, 4-wire, CAT5, CAT5e, PUR, halogen-free • Description: Ethernet, shielded | SSL-1204-G10ME90 | 6045279 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 5-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 5 m, 5-wire, PUR, halogen-free • Description: Sensor/actuator cable, shielded • Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation | YF2A25-050UB6XLEAX | 2095733 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 5-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 10 m, 5-wire, PUR, halogen-free • Description: Sensor/actuator cable, shielded • Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation | YF2A25-100UB6XLEAX | 2095734 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 5-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 20 m, 5-wire, PUR, halogen-free • Description: Sensor/actuator cable, shielded • Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation | YF2A25-200UB6XLEAX | 2095738 |
|  | <ul style="list-style-type: none"> • Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, RJ45, 4-pin, straight • Signal type: Ethernet, PROFINET • Cable: 2 m, 4-wire, PUR, halogen-free • Description: Ethernet, shielded, PROFINET | YM2D24-020P-N1MRJA4 | 2106182 |

| | Brief description | Type | part no. |
|---|--|--------------------|----------|
|  | <ul style="list-style-type: none"> • Application: Drag chain operation, Zones with oils and lubricants • Connection type head A: Female connector, M12, 5-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 2 m, 5-wire, PUR, halogen-free • Description: Sensor/actuator cable, shielded • Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation | YF2A25-020UB6XLEAX | 2145583 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 5-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 1 m, 5-wire, PUR, halogen-free • Description: Sensor/actuator cable, shielded • Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation | YF2A25-010UB6XLEAX | 2145582 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 5-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 0.6 m, 5-wire, PUR, halogen-free • Description: Sensor/actuator cable, shielded • Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation | YF2A25-C60UB6XLEAX | 2145581 |

SICK AT A GLANCE

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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.”

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