Miniature Sensors - S3Z

S3Z

Advanced line of miniature Asian style of photoelectric sensors

- 50–250 mm background suppression
- 0.7 m proximity, 150 mm with narrow beam
- 4 m polarized retroreflective
- 15 m through beam
- Standard 3-wire output configuration

APPLICATIONS
- Processing and Packaging machinery
- Electronics assembling
- Transportation lines, material handling
- Automatic warehouses
- Cosmetics and Pharmaceutical industry
- Small part detection with maximum accuracy

S3Z

Through beam
- 0...15 m
- 0...30 m (class 1 LASER)

Polarized retroreflective
- 0.05...4 m
- 0...2 m

Retroreflective for transparent (on R2 reflector)
- 0...4 m

Diffuse proximity
- 0...700 m
- 50...150 mm (narrow beam)

Background suppression
- 50...250 mm
- 40...300 mm (class 1 LASER)

Power supply
- Vdc
  - 10...30 V
- Vac
- Vac/dc

Output
- PNP
- NPN
- NPN/PNP
- relay
- other

Connection
- cable
- connector
- pig-tail

Approximate dimensions (mm)
- 11x31x19

Housing material
- PC/PBT

Mechanical protection
- IP67

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## TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
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</thead>
</table>
| Consumption (output current excluded) | 30 mA max (LED mod.)  
35 mA max (Laser mod.) |
| Light emission             | red LED 650 nm (mod. S3Z...TS51)  
red LED 665 nm (mod. S3Z...B01/C01)  
red LED 670 nm (mod. S3Z...M01)  
IR LED 850 nm (mod. S3Z...C01)  
IR LED 870 nm (mod. S3Z...F01/G00)  
red Laser 650 nm (mod. S3Z...B01/F01/G00/M01)  
sensitivity trimmer, 6 turns screw (mod. S3Z...M01) |
| Setting                    | LIGHT/DARK trimmer (Laser mod.); LIGHT (mod. S3Z...PL..NL) |
| Indicators                 | yellow OUTPUT LED, green STABILITY LED (mod. S3Z...B01/C01/C11/F01), POWER ON LED (mod. S3Z...G00) |
| Output                     | PNP or NPN (short circuit protection) |
| Output current             | 100 mA max |
| Saturation voltage         | 2 V max (LED mod.)  
1.5 V max. (Laser mod.) |
| Response time              | 1 ms max. (LED mod.)  
250 µs max. (Laser mod.) |
| Switching frequency        | 500 Hz max. (LED mod.)  
2 kHz max. (Laser mod.) |
| Connection                 | 2 m cable Ø 3.5 mm, M8 4-pole connector |
| Dielectric strength        | 500 Vac 1 min., between electronics and housing |
| Insulating resistance      | >20 MO 500 Vdc, between electronics and housing |
| Mechanical protection      | IP67 |
| Ambient light rejection    | according to EN 60947-5-2 |
| Vibration                  | 0.5 mm amplitude, 10...55 Hz frequency, for every axis (EN60068-2-6) |
| Shock resistance           | 11 ms (30 G) 6 shock for every axis (EN60068-2-27) |
| Housing material           | body: PET, indicators cover: PC |
| Lens material              | PMMA, PC (mod. S3Z...B01) |
| Operating temperature      | -25...55 °C (LED mod.), -10...65 °C (Laser mod.) |
| Storage temperature        | -40...70 °C (LED mod.), -25...70 °C (Laser mod.) |
| Weight                     | 50 g max. cable vers., 10 g max. conn. vers. |

## DIMENSIONS

![S3Z F01/G00 S3Z B01/C01/C11/M01]

![S3Z...TS51]

![S3Z...F01/G00 S3Z...B01/M01]

![Dimensions in mm]

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**DECLARATION OF CONFORMITY**

DATALOGIC AUTOMATION srl

ia Lavino 265 - 40050 Monte S.Pietro - Bologna – Italy

Referring to the table below, adjust the distance of the photoelectric sensor and turn the trimmer (250°) 6 turns screw.

**ATTENTION**

- Do not apply excessive torque when adjusting (max 0.05 Nm).
- The trimmer rotation is limited to 250° by a mechanical stop.

**WARNING (only for S3Z...B01/F01):**

- LIGHT/DARK TRIMMER ADJUSTMENT SCREW (S3Z...M01)
- TRIMMER (S3Z...B01/F01)
- POWER ON LED (S3Z...G00)
- OUTPUT LED (S3Z...G00)
- STABILITY LED (S3Z...B01/C01/C11/F01)

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**TECHNICAL DATA**

- **Consumption (output current excluded):**
  - 30 mA max (LED mod.)
  - 35 mA max (Laser mod.)
- **Light emission:**
  - red LED 650 nm (mod. S3Z...TS51)
  - red LED 665 nm (mod. S3Z...B01/C01)
  - red LED 670 nm (mod. S3Z...M01)
  - IR LED 850 nm (mod. S3Z...C01)
  - IR LED 870 nm (mod. S3Z...F01/G00)
  - red Laser 650 nm (mod. S3Z...B01/F01/G00/M01)
  - sensitivity trimmer, 6 turns screw (mod. S3Z...M01)
- **Setting:**
  - LIGHT/DARK trimmer (Laser mod.); LIGHT (mod. S3Z...PL..NL)
- **Indicators:**
  - yellow OUTPUT LED, green STABILITY LED (mod. S3Z...B01/C01/C11/F01), POWER ON LED (mod. S3Z...G00)
- **Output:**
  - PNP or NPN (short circuit protection)
- **Output current:**
  - 100 mA max
- **Saturation voltage:**
  - 2 V max (LED mod.)
  - 1.5 V max. (Laser mod.)
- **Response time:**
  - 1 ms max. (LED mod.)
  - 250 µs max. (Laser mod.)
- **Switching frequency:**
  - 500 Hz max. (LED mod.)
  - 2 kHz max. (Laser mod.)
- **Connection:**
  - 2 m cable Ø 3.5 mm, M8 4-pole connector
- **Dielectric strength:**
  - 500 Vac 1 min., between electronics and housing
- **Insulating resistance:**
  - >20 MO 500 Vdc, between electronics and housing
- **Mechanical protection:**
  - IP67
- **Ambient light rejection:**
  - according to EN 60947-5-2
- **Vibration:**
  - 0.5 mm amplitude, 10...55 Hz frequency, for every axis (EN60068-2-6)
- **Shock resistance:**
  - 11 ms (30 G) 6 shock for every axis (EN60068-2-27)
- **Housing material:**
  - body: PET, indicators cover: PC
- **Lens material:**
  - PMMA, PC (mod. S3Z...B01)
- **Operating temperature:**
  - -25...55 °C (LED mod.), -10...65 °C (Laser mod.)
- **Storage temperature:**
  - -40...70 °C (LED mod.), -25...70 °C (Laser mod.)
- **Weight:**
  - 50 g max. cable vers., 10 g max. conn. vers.
**Miniature Sensors - S3Z**

### Connections

**Cable**

- Through beam emitter
  - **BROWN** 1 + 10...30 Vdc
  - **OUTPUT**
  - **BLUE** 3 0 V

**MB Connector**

- **NOT USED** (WHITE) 2
- **10...30 Vdc (BROWN)** 1
- **OUTPUT**
- **(BLACK)** 4
- **0 V** 3
- **(BLUE)**

### Diagram LED Models

**Background Suppression - Distance Difference vs Reflectance Target**

- White 90% / Black 4%
- White 90% / Gray 10%

**Through Beam - Detection Area**

- Detection diagram S3Z-F/G

**Polarized Retroreflective - Detection Area**

- Detection diagram S3Z-B

**Diffuse Proximity - Detection Area**

- Detection diagram S3Z-C

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**WARNING (only for S3Z...B01/F01):**

- The operating distance increases turning the control clockwise. The trimmer can be used to adjust sensitivity; the operating distance increases turning the control clockwise. Do not apply excessive torque when adjusting (max 0.05 Nm).

**ADJUSTMENT SCREW (S3Z...M01)**

- The green LED indicates that the sensor is operating.
- The trimmer rotation is limited to 250° by a mechanical stop.
- This product complies with FDA regulations 21CFR 1040.10 and 1040.11 based on Notice No.50.

**Connections**

- **BROWN** 1 + 10...30 Vdc
- **OUTPUT**
- **BLUE** 3 0 V

**Technical Data**

- **Weight:** 50 g. max. cable versions / 10 g. connector versions
- **Connections:** 2 m cable
- **Emission type:** Red Laser diode (Emission wavelength: 650nm)
- **Response time:** 250 us max.
- **Ripple:** p-p 10% max.
- **Power supply:** 12 … 24 VDC (operating limit 10…30VDC); (Class 2 UL508) reverse polarity protected
- **Shock resistance:** 11 ms (30 G) 6 shock for every axis (EN60068-2-27)
- **Lenses:** PMMA
- **Housing:** Body PBT / indicators cover PC
- **Weight:** 50 g. max. cable versions / 10 g. connector versions
- **Connections:** 2 m cable
- **Detected target:** very small or transparent targets. In order to improve detection, it is recommended to operate with the stability LED turned ON.
- **Response time:** 250 us max.
- **Ripple:** p-p 10% max.
- **Power supply:** 12 … 24 VDC (operating limit 10…30VDC); (Class 2 UL508) reverse polarity protected
- **Shock resistance:** 11 ms (30 G) 6 shock for every axis (EN60068-2-27)
- **Lenses:** PMMA
- **Housing:** Body PBT / indicators cover PC

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**DECLARATION OF CONFORMITY**

Datalogic Automation, Datalogic Automation Srl declares under its sole responsibility that these products comply with the Essential Requirements of the R&TTE Directive 1999/5/EC and the Low Voltage Directive 2014/35/EU. This Declaration of Conformity is based on the test results and the examination of the design and construction of the products referred to in the Declaration. The technical files, which support this Declaration, have been prepared and kept by Datalogic Automation Srl, and can be made available at the request of the European authorities at the address: Datalogic Automation srl, Via della Scala 1, 20100, Milan, Italy.

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**Coaxial**

- **B**
- **A**
- **C**
- **D**
- **E**
- **F**
- **G**
- **H**
- **I**
- **J**
- **K**
- **L**
- **M**
- **N**
- **O**
- **P**
- **Q**
- **R**
- **S**
- **T**
- **U**
- **V**
- **W**
- **X**
- **Y**
- **Z**
DIAGRAMS LASER MODELS

BACKGROUND SUPPRESSION - DETECTION AREA

POLARIZED RETROREFLECTIVE - DETECTION AREA

THROUGH BEAM - DETECTION AREA

BACKGROUND SUPPRESSION - SPOT DIMENSION

POLARIZED RETROREFLECTIVE - EXCESS GAIN

THROUGH BEAM - EXCESS GAIN
## OPTIC FUNCTION

### EMISSION CONNECTION OUTPUT MODEL ORDER No.

#### Narrow beam diffuse proximity

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<thead>
<tr>
<th>LED</th>
<th>2 m Cable PNP - LIGHT</th>
<th>PNP-PR-2-C01-PL</th>
<th>53Z-PR-2-C01-PL</th>
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#### Long diffuse proximity

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#### Polarized retroreflective

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#### Through beam

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<th>PNP-PR-2-FG01-P</th>
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#### Background suPression

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#### Polarized retroreflective for transparent

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**www.datalogic.com**
Miniature Sensors - S3Z

ACCESSORIES

ST-5039

ST-5040

www.datalogic.com

SLIT

M18 ADAPTER NOSE
## CABLES

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<th>DESCRIPTION</th>
<th>LENGTH</th>
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<td>ST-5039</td>
<td>L-shaped fixing bracket</td>
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<td>protection bracket with vertical fixing (only for cable versions)</td>
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<td>ST-5046</td>
<td>protection bracket with horizontal fixing</td>
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<td>S3Z-SLUT1</td>
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## Axial M8 Connector

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## Radial M8 Connector

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