



# DS4 Standard

957650116

DS4-25-2100-S08-JZ

DETECTION AND MEASUREMENT AREA SENSOR

## OVERVIEW

Versatile area sensors for detecting and measuring in various industrial applications. Conveniently configured using IO-Link and wirelessly programmable through AppGUI for detailed parameter adjustments and advanced setups.



## TECHNICAL FEATURES

### Detection properties

|                          |            |
|--------------------------|------------|
| Nominal sensing distance | 0.2...13 m |
|--------------------------|------------|

|             |       |
|-------------|-------|
| Beams space | 25 mm |
|-------------|-------|

|                   |         |
|-------------------|---------|
| controlled height | 2100 mm |
|-------------------|---------|

|                |    |
|----------------|----|
| number of rays | 84 |
|----------------|----|

|                        |                               |
|------------------------|-------------------------------|
| Sensitivity adjustment | remote teach, IO-Link, AppGUI |
|------------------------|-------------------------------|

|                      |       |
|----------------------|-------|
| Detection capability | 25 mm |
|----------------------|-------|

Features and performances

|                      |   |
|----------------------|---|
| Detection capability | 0 |
|----------------------|---|

Application

|             |                                      |
|-------------|--------------------------------------|
| Description | DS4-25-2100-S08-JZ 25mm H=2100mm IOL |
|-------------|--------------------------------------|

Outputs

|                 |                                                              |
|-----------------|--------------------------------------------------------------|
| Output type     | PNP or NPN or Push-Pull , 0...10 V, 4..20 mA, IO-Link, RS485 |
| Output Function | Light array for detection and measurement                    |

Electrical data

|                                    |                                      |
|------------------------------------|--------------------------------------|
| Operating Voltage                  | 19.2...28.8 Vdc                      |
| No-Load supply current             | 360 mA (emitter and receiver)        |
| Leakage current                    | 100 mA                               |
| Output voltage drop                | 2.5 V @ IL=100 mA                    |
| Time delay before availability     | 3.52 s                               |
| Short-circuit protection           | Yes                                  |
| Reverse Polarity Protection        | Yes                                  |
| Emission                           | Infrared (850 nm) Emitter + Receiver |
| Impulsive Overvoltage Protection   | Yes                                  |
| Protection against inductive loads | Yes                                  |

|  |  |
|--|--|
|  |  |
|--|--|

**Mechanical data**

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| Material              | Aluminium / PBT                                                                        |
| Housing material      | Aluminium                                                                              |
| Optic window material | PMMA                                                                                   |
| Weight                | 1.4 Kg/m (single bar, without package)                                                 |
| Connections           | M12 5 poles + 200 mm length cable TPU (TX), M12 8 poles + 200 mm length cable TPU (RX) |
| Active Head Material  | PMMA                                                                                   |
| Storage temperature   | -30...+70 °C                                                                           |
| Humidity              | 15...95 % (without freeze)                                                             |

**Test/Approvals**

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Shocks and vibrations | 10 mm / 3g, 5 ... 150 Hz frequency, (EN 60068-2-6 / Class 3M7 IEC TR 60721-4-3); 25g x 6 ms x 600 (EN 60068-2-27 / Class 3M7 IEC TR 60721-4-3) |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

**Accessories**

|                      |                |
|----------------------|----------------|
| Supplied Accessories | Fixing brakets |
|----------------------|----------------|

**Generical Data**

|                       |                              |
|-----------------------|------------------------------|
| Dimensions            | 35 x 40 x 2111.5 mm          |
| Operating Temperature | -30...+50°C (without freeze) |
| Mechanical Protection | IP65 IP67                    |

LED indicators

TX: Green (Power ON), Yellow (Emission range) Red (Test, failure, Firmware ongoing update), Blue (Emission range, Firmware update completed) RX: Green (Power ON), Yellow (Status output, Connection and teach-in active) Red (Hardware Errors, Invalid con

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