

## Basic features

|   |   |
|---|---|
| Secondary features for condition monitoring | Inclination monitoring and installation aid<br>Internal humidity detection<br>Internal temperature monitoring<br>Vibration monitoring |
| 供貨範圍  | 視覺感測器 BVS   |
| 圖面解析度                                       | 1.2 MP(1280 x 960 畫素)   |
| 感測器類型, 視覺                                   | CMOS 1/3" monochrome global shutter   |
| 應用  | Check on attendance<br>Brightness tool<br>BLOB  |
| 畫素大小  | 3.75 x 3.75 $\mu\text{m}$   |
| 認證  | CE<br>UKCA<br>cULus<br>FCC<br>WEEE  |

## Display/Operation

|     |   |
|-----|---|
| 調節器 | 鍵 |
|-----|---|

## Electrical connection

|       |                     |
|-------|---------------------|
| 反極性保護 | 是                   |
| 接口 1  | M12x1-插頭, 4-針, A-編碼 |
| 接口 2  | M12x1-插口, 8-針, X-編碼 |
| 接口 3  | M12x1-插口, 5-針, A-編碼 |
| 短路保護  | 是                   |

## Electrical data

|                  |                              |
|------------------|------------------------------|
| 在 $U_e$ 下的最大空載電流 | 300 mA                       |
| 工作電壓 $U_b$       | 18 - 30 VDC                  |
| 輸出電流, 最大         | 1.6 A Observe voltage supply |

## Environmental conditions

|                   |   |
|-------------------|---|
| EN 60068-2-27, 衝擊 | 30 g, 11 ms<br>100 g, 6 ms  |
| EN 60068-2-6, 振動  | 10-500Hz / 15g / 5h   |
| 倉儲溫度              | -25...70 °C   |
| 環境溫度              | 0...55 °C   |
| 相對空氣濕度            | 80 % at ambient temperature<br>up to 31 °C, decreasing linearly<br>up to 50% at 40 °C |
| 防護等級              | IP67  |

## Functional Characteristics

|                    |                      |
|--------------------|----------------------|
| LED 組件符合 IEC 62471 | 風險組別 1               |
| MTTF (40 °C)       | 28.3 a               |
| 光線類型               | LED                  |
| 最大視野               | 305 x 230 mm         |
| 最小視野               | 30 x 30 mm           |
| 焦距                 | 9.6 mm               |
| 照明方式               | LED white<br>LED red |
| 目標裝置照明方式           | LED red              |

## Interface

|       |   |
|-------|---|
| 介面    | IO-Link 1.1<br>TCP/UDP<br>IIoT (Gigabit Ethernet)                                     |
| 數位輸入端 | 觸發器   |
| 開關輸出端 | 推拉式 NV<br>推拉式 Overall result<br>推拉式 external illumination<br>Configurable by software |

## Material

|       |             |
|-------|-------------|
| 外殼材質  | 鋁, 壓鑄, 已上漆  |
| 感應面材質 | Luxacryl/2h |

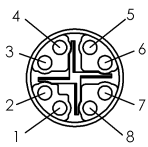
## Mechanical data

|     |                 |
|-----|-----------------|
| 固定件 | 螺栓 M4           |
| 尺寸  | 56 x 56 x 59 mm |
| 重量  | 240 g           |

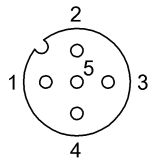
## Range/Distance

|      |             |
|------|-------------|
| 工作距離 | 50...600 mm |
|------|-------------|

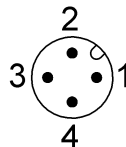
## Connector Drawings



PIN 1: BI\_DA+  
PIN 2: BI\_DA-  
PIN 3: BI\_DB+  
PIN 4: BI\_DB-  
PIN 5: BI\_DD+  
PIN 6: BI\_DD-  
PIN 7: BI\_DC-  
PIN 8: BI\_DC+

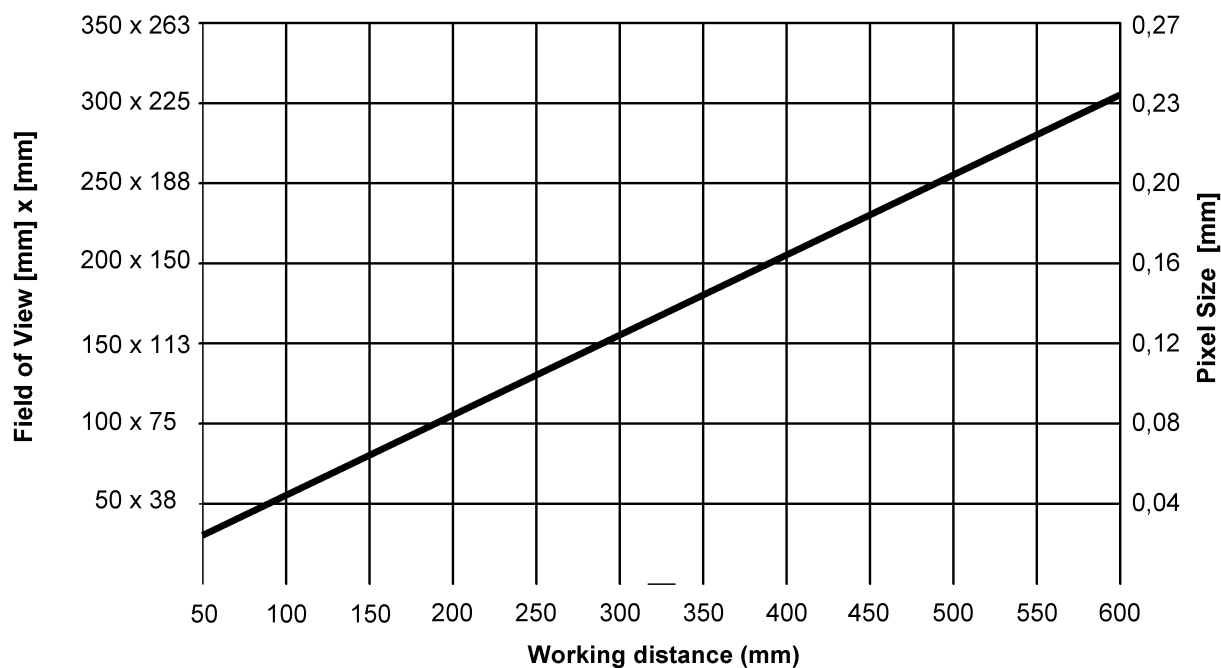


PIN 1: +24 V Out  
PIN 2: Boost/Out  
PIN 3 : GND  
PIN 4: Light/Out  
PIN 5: Not connected



PIN 1 : +24V  
PIN 2: Trigger In  
PIN 3 : GND  
PIN 4: IO-Link/SIO

## Technical Drawings



**Recommendation:** - Barcode: min. 3 pixel / module  
- 2D codes: min. 4 pixel / module