

BACKGROUND SUPPRESSION
PHOTOELECTRIC SENSORS

HTMTM
SENSORS



 **IO-Link**



- MINIATURE HOUSING
- SENSITIVITY ADJUSTMENT VIA POTENTIOMETER
- IO-LINK FOR PROCESS OPTIMIZATION
- EXCELLENT BLACK/WHITE BEHAVIOR
- IMMUNITY TO MUTUAL INTERFERENCES

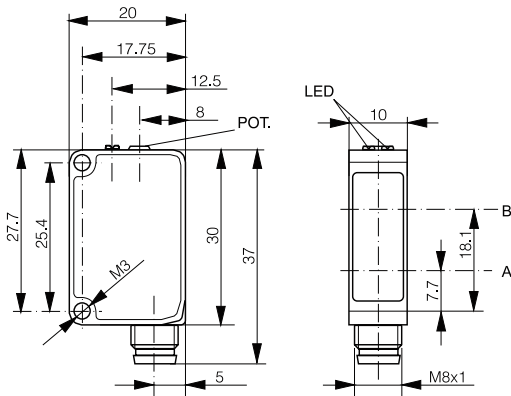
BACKGROUND SUPPRESSION PHOTOELECTRIC SENSORS SPECIFICATIONS



| OPTICAL DATA | | INTERFACE | |
|----------------------------|----------------------------------|------------------------|----------------------------|
| Sensing range typ. max. | 10...300 mm ¹ | Sensitivity adjustment | 30...300 mm, 3/4-turn pot. |
| Operating range | 15...250 mm ¹ | Indicator LED, green | Excess gain |
| Light source | Pinpoint LED, red 640 nm | Indicator LED, yellow | Sensing state |
| Light spot size (distance) | Ø 6 mm (100 mm)/Ø 10 mm (300 mm) | IO-Link | ✓ |

¹Object with 90% reflectance (standard white paper)

H30-BGS-0300P-M08-4QD



A: emitter axis B: receiver axis

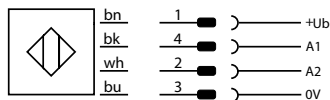
| ELECTRICAL DATA | | MECHANICAL DATA | |
|--|---------------------------------------|-------------------------------|-----------------------------|
| Supply voltage range (U _b) | 10...30 VDC | Enclosure rating | IP67 |
| Residual ripple | ≤ 10% V _{pp} | Ambient temperature operation | -25...+65°C |
| Output current | ≤ 100 mA | Shock and vibration | IEC 60947-5-2 |
| Signal PNP high/low | ≤ (U _b -2.0 V)/approx. 0 V | Weight (connector version) | 6 g (M8)/16 g (cable + M12) |
| Power consumption (no load) | ≤ 30 mA | Housing material | ABS |
| Response time ¹ | ≤ 500 µs (normal)/≤ 1 ms/≤ 340 µs | Window material | PMMA |
| Switching frequency | 1 ≤ 1 kHz (normal)/≤ 500 Hz/≤ 1.5 kHz | Connector type | M8 3-pin or 4-pin |
| Short circuit protection | ✓ | | |
| Voltage reversal protection | ✓ | | |

¹By default, "Normal" mode. "Fine" and "Fast" modes selectable via IO-Link.

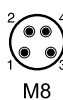


| IO-LINK FUNCTIONALITIES | |
|-------------------------|---|
| IO-Link version | 1.0 |
| SIO mode | Supported |
| Process data | Detection state & stability alarm |
| Baudrate | COM2 (38.4 kBaud) |
| Special functions | Output configuration, output timing, sensor mode, detection counter, event flags, maximum and actual sensor temperature |

WIRING DIAGRAM



PINS



BACKGROUND SUPPRESSION PHOTOELECTRIC SENSORS WITH VISIBLE LED ENSURE RELIABLE AND EXTENDED SENSING RANGES FOR LIMITED SPACES, WITH IP67 ENCLOSURE RATING AND ARE ECOLAB-APPROVED FOR USE IN HYGIENIC AREAS. IO-LINK COMMUNICATION FOR PROCESS OPTIMIZATION.



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