

# Light Curtain

## Pick-to-Light

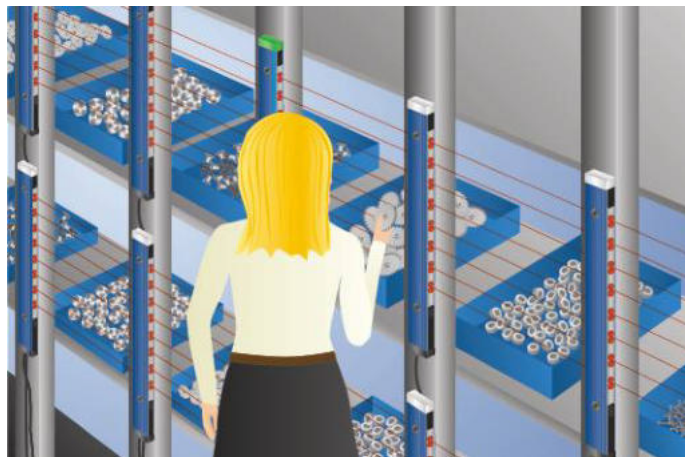
# OLEB122C0102

Part Number



- 360° visible, two-color job display
- Error prevention during partial picking processes in shelves and storage locations
- Low mounting thanks to integrated reflector
- Rugged aluminium housing

Pick to light light curtains use the single-lens reflex principle. The necessary reflector is pre-installed on the rear of the housing and serves as a reflective surface for the neighboring light curtain, making installation easier. The integrated two-color light from the job display is visible from 360° and shows both correct and incorrect picks.



## Technical Data

### Optical Data

|                                |           |
|--------------------------------|-----------|
| Range                          | 2000 mm   |
| Min. Distance to Reflector     | 100 mm    |
| Measurement Field Height (MFH) | 120 mm    |
| Beam Distance                  | 30 mm     |
| Switching Hysteresis           | < 15 %    |
| Light Source                   | Red Light |
| Polarization Filter            | yes       |
| Service Life (T = +25 °C)      | 100000 h  |
| Max. Ambient Light             | 10000 Lux |
| Opening Angle                  | 2,5 °     |
| Two-Lens Optic                 | yes       |

### Electrical Data

|                                             |              |
|---------------------------------------------|--------------|
| Supply Voltage                              | 10...30 V DC |
| Current Consumption (U <sub>b</sub> = 24 V) | < 50 mA      |
| Switching Frequency                         | 120 Hz       |
| Response Time                               | 4 ms         |
| Temperature Drift                           | < 10 %       |
| Temperature Range                           | -25...60 °C  |
| Switching Output Voltage Drop               | < 2,5 V      |
| PNP Switching Output/Switching Current      | 200 mA       |
| Residual Current Switching Output           | < 50 µA      |
| Short Circuit Protection                    | yes          |
| Reverse Polarity Protection                 | yes          |
| Overload Protection                         | yes          |
| Protection Class                            | III          |

### Mechanical Data

|                       |                |
|-----------------------|----------------|
| Setting Method        | Teach-In       |
| Housing Material      | Aluminum       |
| Degree of Protection  | IP65           |
| Connection            | M12 × 1; 4-pin |
| Cable Length          | 250 mm         |
| Housing Length (L)    | 246 mm         |
| Reflector Length (RL) | 162 mm         |

PNP NO/NC switchable

Connection Diagram No.

Control Panel No.

Suitable Connection Equipment No.

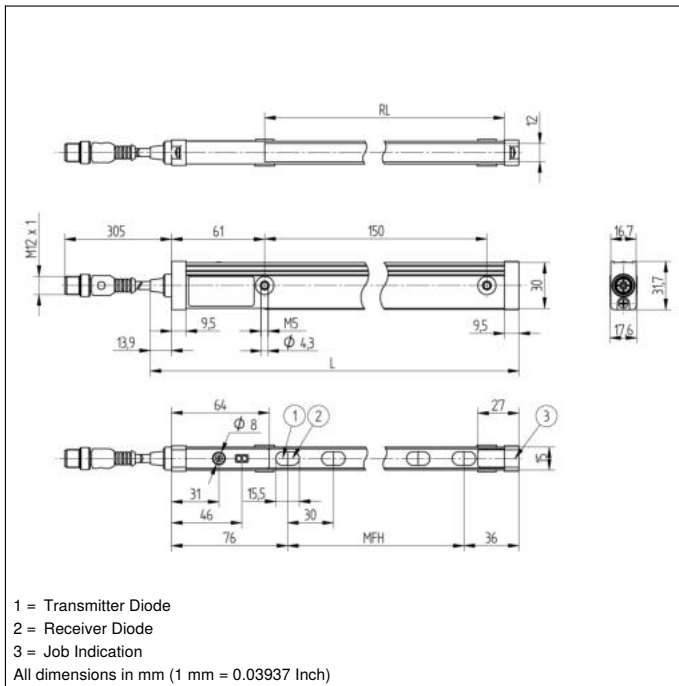
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EB1

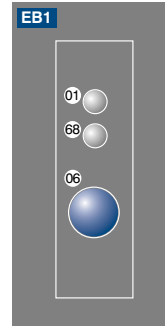
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## Complementary Products

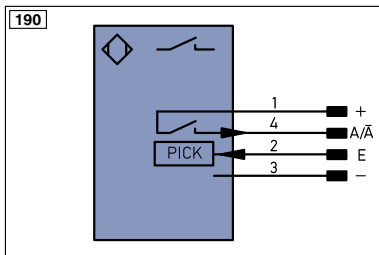
|                               |
|-------------------------------|
| PNP-NPN Converter BG2V1P-N-2M |
| Reflector Foil ZRDF10K01      |
| Reflector ZRDE12B01           |



## Ctrl. Panel



01 = Switching Status Indicator  
06 = Teach Button  
68 = Supply Voltage Indicator



## Legend

|         |                                            |       |                                |                                      |                     |
|---------|--------------------------------------------|-------|--------------------------------|--------------------------------------|---------------------|
| +       | Supply Voltage +                           | PT    | Platinum measuring resistor    | ENAR5422                             | Encoder A/Ä (TTL)   |
| -       | Supply Voltage 0 V                         | nc    | not connected                  | ENB5422                              | Encoder B/B (TTL)   |
| ~       | Supply Voltage (AC Voltage)                | U     | Test Input                     | ENA                                  | Encoder A           |
| A       | Switching Output (NO)                      | Ü     | Test Input inverted            | ENB                                  | Encoder B           |
| Ä       | Switching Output (NC)                      | W     | Trigger Input                  | AMIN                                 | Digital output MIN  |
| V       | Contamination/Error Output (NO)            | W-    | Ground for the Trigger Input   | AMAX                                 | Digital output MAX  |
| Ṽ       | Contamination/Error Output (NC)            | O     | Analog Output                  | AOK                                  | Digital output OK   |
| E       | Input (analog or digital)                  | O-    | Ground for the Analog Output   | SY in                                | Synchronization In  |
| T       | Teach Input                                | BZ    | Block Discharge                | SY OUT                               | Synchronization OUT |
| Z       | Time Delay (activation)                    | AMV   | Valve Output                   | OLT                                  | Brightness output   |
| S       | Shielding                                  | a     | Valve Control Output +         | M                                    | Maintenance         |
| RxD     | Interface Receive Path                     | b     | Valve Control Output 0 V       | rsv                                  | reserved            |
| TxD     | Interface Send Path                        | SY    | Synchronization                | Wire Colors according to DIN IEC 757 |                     |
| RDY     | Ready                                      | SY-   | Ground for the Synchronization | BK                                   | Black               |
| GND     | Ground                                     | E+    | Receiver-Line                  | BN                                   | Brown               |
| CL      | Clock                                      | S+    | Emitter-Line                   | RD                                   | Red                 |
| E/A     | Output/Input programmable                  | ±     | Grounding                      | OG                                   | Orange              |
| IO-Link | IO-Link                                    | SnR   | Switching Distance Reduction   | YE                                   | Yellow              |
| PoE     | Power over Ethernet                        | Rx+/- | Ethernet Receive Path          | GN                                   | Green               |
| IN      | Safety Input                               | Tx+/- | Ethernet Send Path             | BU                                   | Blue                |
| OSSD    | Safety Output                              | Bus   | Interfaces-Bus A(+)/B(-)       | VT                                   | Violet              |
| Signal  | Signal Output                              | La    | Emitted Light disengageable    | GY                                   | Grey                |
| BL-D+/- | Ethernet Gigabit bidirect. data line (A-D) | Mag   | Magnet activation              | WH                                   | White               |
| EN05422 | Encoder 0-pulse 0-0 (TTL)                  | RES   | Input confirmation             | PK                                   | Pink                |
|         |                                            | EDM   | Contacting Monitoring          | GNYE                                 | Green/Yellow        |