# Barcode Line Scanner
## CCD Array

# BLN0L1R20

Part Number

**Ethernet**

- **Compact housing**
- **Ethernet TCP/IP**
- **LED display indicates "good read"**
- **Red light**
- **Web server and graphic display for simple operation**

This scanner is particularly suitable for detecting 1D codes printed or lasered on glossy materials. It works reliably even with small contrast differences and poor code quality. Readable code types:
Code39, Full-ASCII-Code39, Interleaved 2 of 5, China Postal Code, Codabar, Code32, MSI Plessy Code, Code11, Industrial 2 of 5, Matrix 2 of 5, Telepen Code, UK Plessy Code, IATA Code, Code93, EAN13, EAN8, UPC-A, UPC-E, Code128, UCC/EAN-128, RSS-14, RSS-Limited
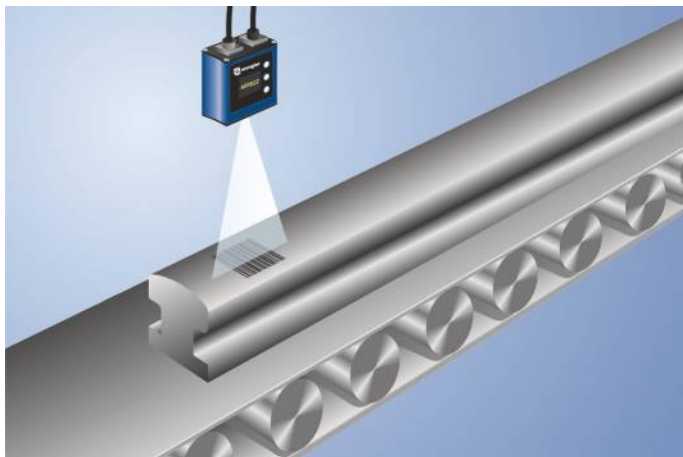
## Technical Data

| Optical Data | |
|---|---|
| Barcode Density | Long range |
| Read Range | 30...520 mm |
| Resolution | 0,101 mm |
| Light Source | Red Light |
| Wavelength | 625 nm |
| Service Life (T = +25 °C) | 100000 h |
| Max. Ambient Light | 70000 Lux |
| Opening Angle | 40 ° |
| Barcode Printing Contrast | > 30 % |
| **Electrical Data** | |
| Supply Voltage | 18...30 V DC |
| Port Type | 100BASE-TX |
| Current Consumption (Ub = 24 V) | < 100 mA |
| Scan Rate | 510 scans/sec |
| Temperature Range | -20...60 °C |
| Inputs/Outputs | 4 |
| Switching Output Voltage Drop | < 2,5 V |
| PNP Switching Output/Switching Current | 100 mA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Network Possibilities | Ethernet |
| Interface | RS-232/Ethernet |
| Protection Class | III |
| **Mechanical Data** | |
| Housing Material | Aluminum |
| Optic Cover | Plastic, PMMA |
| Weight | 130 g |
| Degree of Protection | IP67 |
| Connection | M12 × 1; 8-pin |
| Type of Connection Ethernet | M12 × 1; 8-pin, X-cod. |
| Web server | yes |

| | |
|---|---|
| Configurable as PNP/NPN/Push-Pull | ● |
| Switchable to NC/NO | ● |
| Ethernet | ● |
| RS-232 Interface | ● |

| | | |
|---|---|---|
| Connection Diagram No. | 002 | 786 |
| Control Panel No. | | X2 |
| Suitable Connection Equipment No. | 50 | 89 |
| Suitable Mounting Technology No. | | 560 |

Display brightness may decrease with age. This does not result in any impairment of the sensor function.
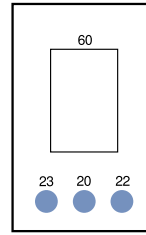
## Complementary Products

| |
|---|
| Fieldbus Gateway  ZAGxxxN01, EPGG001 |
| Protective Housing ZNNS001, ZNNS002 |
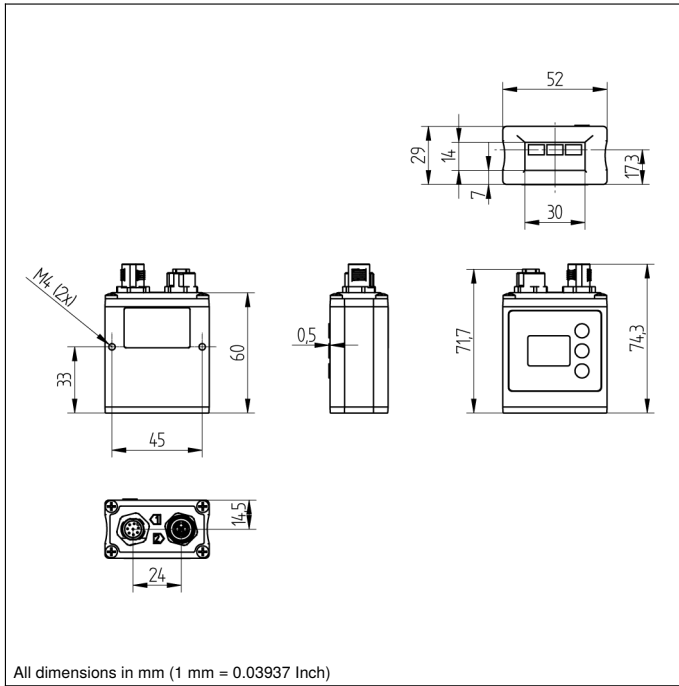
All dimensions in mm (1 mm = 0.03937 Inch)

20 = Enter key
22 = Up key
23 = Down key
60 = display

| Min. Resolution | R     d Range |                    |
|-----------------|---------------|--------------------|
| 0,076 mm        | –             | Code 39 (4 digits) |
| 0,101 mm        | 60…130 mm     | Code 39 (4 digits) |
| 0,127 mm        | 55…170 mm     | Code 39 (4 digits) |
| 0,254 mm        | 30…350 mm     | Code 39 (4 digits) |
| 0,381 mm        | 45…520 mm     | Code 39 (4 digits) |
| 0,330 mm        | 40…390 mm     | UPC/EAN (13 digits) |

| Scanning field width | 200 mm | Code39 (0,330 mm) |
|----------------------|--------|-------------------|