

# LTB

## LTB/0N-0K

**Photo.M18,NPN-NO/NC,M12plug 90°,Contrast**

**SPECIAL PHOTOELECTRIC SENSORS M18 CONTRAST SCANNER - DC**

# OVERVIEW

- With white light emission
- Sensitivity adjustment
- Short response time (50 µs)
- LO/DO selectable outputs
- P65 protection degree
- Complete protection against electrical damages
- Approvals: CE

CE

# TECHNICAL FEATURES

Detection properties

| | |
|---|---|
| Nominal sensing distance | 12mm (with STF-12) 25mm (with SFT-25) |
| Thermal drift of Sr | ≤ 10% |
| Spot dimension | Ø 1mm (with STF-12) Ø 0,8mm (with SFT-25) |

Application

| | |
|---|---|
| Function Principle | Contrast mark detection |

| | |
|---|---|
| Notes | white target Kodak 90% 100 x 100mm |

Outputs

| | |
|---|---|
| Output type | NPN L/D Selectable |
| Output Function | L/D Selectable |
| Switching frequency | 10Khz |
| Response time | 50 µs |

Electrical data

| | |
|---|---|
| Operating Voltage | 10…30VDC |
| No-Load supply current | ≤ 40mA |
| Load current | ≤100mA |
| Leakage current | ≤ 10µA |
| Output voltage drop | ≤1,2V@Iload=100mA |
| Max ripple content | ≤10% |
| LED indicators | Yellow (output status) Green(powerON) |
| Time delay before availability | ≤200ms |
| Short-circuit protection | Yes |
| Reverse Polarity Protection | Yes |
| Emission | LED white |

| | |
|---|---|
| Interference to external light | 3000 lux (incandescent lamp) 10000 lux (sunlight) |
| Impulsive Overvoltage Protection | Yes |

Mechanical data

| | |
|---|---|
| Dimensions | M18 |
| Housing material | PBT |
| Connections | M12 plug |
| Active Head Material | PMMA |
| Tightening torque | 1Nm |
| Operating temperature | -5°C … +55°C (without freeze) |

Test/Approvals

| | |
|---|---|
| Approvals | CE |
| EMC compatibility | EN 60947-5-2 |
| Degree of protection | IP65 |

Accessories

| | |
|---|---|
| Supplied Accessories | nuts M18 x 1 |
| Accessories to be ordered separately | Focalizer STF-12 Focalizer STF-25 |

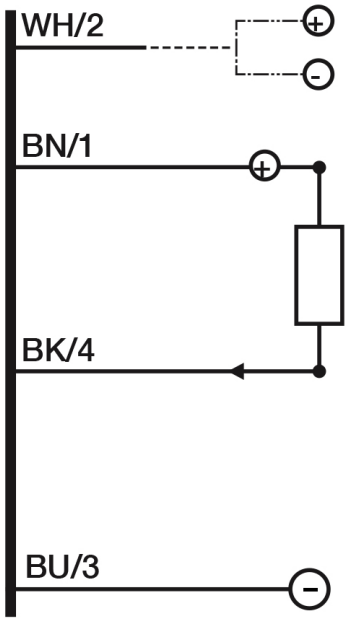
Generical Data

| | |
|---|---|
| Dimensions | M18 |
| Operating Temperature | - 5°C…+ 55° C (Without freeze) |

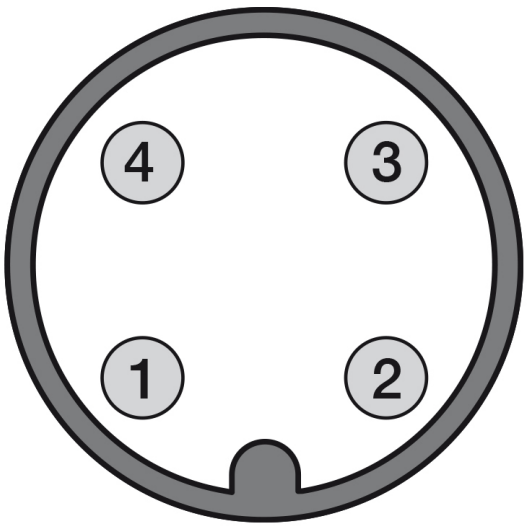
| | |
|---|---|
| Mechanical Protection | IP65 |

# CONNECTIONS

Eletrical diagram




Connector



# OTHERS

Dimensions

| Image: |
| --- |

**Datasensing S.r.l.**
Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

**date of printing**
04/11/2026
10:43:37