



FA

FARS/BN-1AAN

Photo.M18,NPN-NO+NC,Cable,BGS

TECHNICAL FEATURES

Detection properties

|                                       |         |
|---------------------------------------|---------|
| Nominal sensing distance              | 130mm   |
| Thermal drift of Sr                   | ≤10% Sr |
| Repeat Accuracy                       | 5%      |
| Sensitivity adjustment                | Trimmer |
| Minimum sensing distance (blind zone) | 30mm    |

Application

|                    |                                    |
|--------------------|------------------------------------|
| Function Principle | Blackground suppression            |
| Notes              | white target Kodak 90% 100 x 100mm |
| Optic position     | Axial                              |

Outputs

|                     |           |
|---------------------|-----------|
| Output type         | NPN NO+NC |
| Output Function     | NO+NC     |
| Switching frequency | 1Khz      |
| Response time       | 500μs     |

Electrical data

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Operating Voltage              | 10...30VDC                                       |
| No-Load supply current         | ≤ 25mA                                           |
| Load current                   | ≤100mA                                           |
| Leakage current                | ≤10μA                                            |
| Output voltage drop            | ≤2V@Iload=100mA                                  |
| Max ripple content             | ≤10%                                             |
| LED indicators                 | Yellow (Lon) or output status Lo/Do              |
| Time delay before availability | ≤200ms                                           |
| Short-circuit protection       | Short circuit (autoreset), Overvoltage           |
| Reverse Polarity Protection    | Polarity inversal, Impulsive voltage             |
| Emission                       | LED Red (660nm)                                  |
| Interference to external light | 5000lux (incandescent lamp), 10000lux (sunlight) |

Mechanical data

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|                      |                                     |
|----------------------|-------------------------------------|
| Housing material     | Nickel plated brass / PC cable exit |
| Connections          | 2m PVC cable                        |
| Active Head Material | PMMA                                |
| Tightening torque    | 25Nm                                |
| Diameter/Dimension   | M18                                 |

#### Test/Approvals

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Approvals             | CE cULus Ex: II 3G Ex nA IIC T6 Gc II 3D Ex tc IIIB T85°C Dc |
| EMC compatibility     | EN 60947-5-2                                                 |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27               |

#### Accessories

|                      |                           |
|----------------------|---------------------------|
| Supplied Accessories | nuts M18 x 1, screwdriver |
|----------------------|---------------------------|

#### Generical Data

|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | M18 x 1/L=65,5mm                 |
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP67                             |

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