



**FA**

**FARN/BP-0EAN**

**Photo.M18,PNP-NO+NC,M12 plug,Reflex**

## TECHNICAL FEATURES

### Detection properties

|                          |                |
|--------------------------|----------------|
| Nominal sensing distance | 4m             |
| Thermal drift of Sr      | $\leq 10\%$ Sr |
| Repeat Accuracy          | 5%             |
| Sensitivity adjustment   | Trimmer        |

### Application

|                    |                    |
|--------------------|--------------------|
| Function Principle | Polarized          |
| Notes              | On RL110 reflector |
| Optic position     | Axial              |

### Outputs

|             |           |
|-------------|-----------|
| Output type | PNP NO+NC |
|-------------|-----------|

|                     |       |
|---------------------|-------|
| Output Function     | NO+NC |
| Switching frequency | 250Hz |
| Response time       | 2ms   |

Electrical data

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Operating Voltage              | 10...30VDC                                       |
| No-Load supply current         | ≤ 30mA                                           |
| 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

|                  |               |
|------------------|---------------|
| Housing material | PBT / PC plug |
| Connections      | M12 plug      |

|                      |      |
|----------------------|------|
| Active Head Material | PMMA |
|----------------------|------|

|                   |     |
|-------------------|-----|
| Tightening torque | 1Nm |
|-------------------|-----|

|                    |     |
|--------------------|-----|
| 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 =81,6mm |
|------------|--------------------|

|                       |                                  |
|-----------------------|----------------------------------|
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
|-----------------------|----------------------------------|

|                       |      |
|-----------------------|------|
| Mechanical Protection | IP67 |
|-----------------------|------|

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