



**FA**

**FAID/BP-1AAN**

**Photo.M18,PNP-NO+NC,Cable,Receiver**

## TECHNICAL FEATURES

### Detection properties

|                          |                |
|--------------------------|----------------|
| Nominal sensing distance | 20m            |
| Thermal drift of Sr      | $\leq 10\%$ Sr |
| Repeat Accuracy          | 5%             |
| Sensitivity adjustment   | Trimmer        |

### Application

|                    |          |
|--------------------|----------|
| Function Principle | Receiver |
| Emitter/Receiver   | Receiver |
| 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         | ≤ 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 Infrared (880nm)                             |
| Interference to external light | 5000lux (incandescent lamp), 10000lux (sunlight) |

|                  |                                     |
|------------------|-------------------------------------|
| Mechanical data  |                                     |
| Housing material | Nickel plated brass / PC cable exit |
| Connections      | 2m PVC cable                        |

|                      |    |
|----------------------|----|
| Active Head Material | PC |
|----------------------|----|

|                   |      |
|-------------------|------|
| 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=67,5mm |
|------------|------------------|

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

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

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