



FQ

FQIZ/BN-1A

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

TECHNICAL FEATURES

Detection properties

|                          |         |
|--------------------------|---------|
| Nominal sensing distance | 20m     |
| Thermal drift of Sr      | ≤10% Sr |
| Repeat Accuracy          | 5%      |
| Sensitivity adjustment   | No      |

Application

|                    |          |
|--------------------|----------|
| Function Principle | Receiver |
| Emitter/Receiver   | Receiver |

Outputs

|                     |           |
|---------------------|-----------|
| Output type         | NPN 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                   | ≤50mA                                            |
| Leakage current                | ≤10μA                                            |
| Output voltage drop            | ≤2V@Iload=50mA                                   |
| Max ripple content             | ≤10%                                             |
| LED indicators                 | Yellow (status output)                           |
| Time delay before availability | ≤200ms                                           |
| Short-circuit protection       | Short circuit (autoreset), Overvoltage           |
| Reverse Polarity Protection    | Polarity inversal, Impulsive voltage             |
| 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 |
|-----------|----|

|                   |              |
|-------------------|--------------|
| 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 |
|----------------------|--------------|

## Generical Data

|            |                  |
|------------|------------------|
| Dimensions | M18 x 1/L=51,2mm |
|------------|------------------|

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

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

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**date of  
printing**  
10/08/2026  
00:26:18