

Image:

**FAL**

**FALN/0N-1E**

**Photo.M18,NPN-NO/NC,M12 plug,Reflex**

## TECHNICAL FEATURES

### Detection properties

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

### Application

|                    |                                                  |
|--------------------|--------------------------------------------------|
| Function Principle | Polarized                                        |
| Notes              | On RL110 reflector ; 30m on RL201 , 5m on RL100D |
| Optic position     | Axial                                            |

### Outputs

|                     |                    |
|---------------------|--------------------|
| Output type         | NPN L/D Selectable |
| Output Function     | L/D Selectable     |
| Switching frequency | 800Hz              |

|                                |                                                                           |
|--------------------------------|---------------------------------------------------------------------------|
| Response time                  | 625μs                                                                     |
| 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                 | Green power supply/yellow (LightON EG≥2)/yellow flashing (LightON 1<EG<2) |
| Time delay before availability | ≤200ms                                                                    |
| Reverse Polarity Protection    | Polarity inversal, Inpulsive voltage                                      |
| Emission                       | LASER Red (650nm) class1                                                  |
| Interference to external light | 3000lux (incandescent lamp), 10000lux (sunlight)                          |
| Mechanical data                |                                                                           |
| Housing material               | Nickel plated brass / PC plug                                             |
| Connections                    | M12 plug                                                                  |
| Active Head Material           | Glass / PC                                                                |
| Tightening torque              | 25Nm                                                                      |
|                                |                                                                           |

|                    |     |
|--------------------|-----|
| Diameter/Dimension | M18 |
|--------------------|-----|

#### Test/Approvals

|           |          |
|-----------|----------|
| Approvals | CE cULus |
|-----------|----------|

|                   |              |
|-------------------|--------------|
| 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=97,6m |
|------------|-----------------|

|                       |                                  |
|-----------------------|----------------------------------|
| Operating Temperature | - 15°C...+ 55°C (Without freeze) |
|-----------------------|----------------------------------|

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

## Datasensing S.r.l.

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

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