

Image:

# MV-MQ

## MV4/A0-0K

Photo.M18,AC-NO,M12 plug 90°,Diffuse

## TECHNICAL FEATURES

### Detection properties

|                          |               |
|--------------------------|---------------|
| Nominal sensing distance | 200mm         |
| Thermal drift of Sr      | $\leq 10\%Sr$ |
| Repeat Accuracy          | 5%            |
| Sensitivity adjustment   | No            |

### Application

|                    |                                                    |
|--------------------|----------------------------------------------------|
| Function Principle | Diffuse reflection (short distance, $\leq 200mm$ ) |
| Notes              | white target Kodak 90% 100 x 100mm                 |
| Optic position     | Axial                                              |

### Outputs

|                     |          |
|---------------------|----------|
| Output type         | TRIAC NO |
| Output Function     | NO       |
| Switching frequency | 25Hz     |

|               |      |
|---------------|------|
| Response time | 20ms |
|---------------|------|

Electrical data

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| Operating Voltage              | 20...253VAC/50-60Hz                                |
| No-Load supply current         | ≤ 30mARMS                                          |
| Load current                   | 5...300mARMS                                       |
| Leakage current                | 6A                                                 |
| Output voltage drop            | ≤3V@Iload=300mARMS                                 |
| Max ripple content             | ≤10%                                               |
| LED indicators                 | Red (status output)                                |
| Time delay before availability | ≤200ms                                             |
| Emission                       | LED Infrared (880nm)                               |
| Interference to external light | 3.000lux (incandescent lamp), 10.000lux (sunlight) |

Mechanical data

|                      |                   |
|----------------------|-------------------|
| Housing material     | PBT / PC plug 90° |
| Connections          | M12 plug 90°      |
| Active Head Material | PMMA              |
| Tightening torque    | 1Nm               |
| Diameter/Dimension   | M18               |

## Test/Approvals

|           |          |
|-----------|----------|
| Approvals | CE cURus |
|-----------|----------|

|                   |              |
|-------------------|--------------|
| 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 | M18x1/L=78,6mm |
|------------|----------------|

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

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

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