



MV-MQ

MQ1/00-0E

Photo.M18,AC-NO/NC,M12 plug,BGS
M18 AC MULTIVOLTAGE OUTPUT PHOTOELECTRIC
SENSORS

OVERVIEW

- Wide range of models: diffuse, retro-reflective, polarized, through-beam
- Through-beam models with high sensing range
- Retro-reflective models with polarized light (with visible beam)
- M12 plug cable exit in axial or right angle shape
- Low leakage current and high output current
- IP67 protection degree
- Complete protection against electrical damage



TECHNICAL FEATURES

Detection properties

| | |
|--------------------------|---------------|
| Nominal sensing distance | 100mm |
| Thermal drift of Sr | $\leq 10\%Sr$ |
| Repeat Accuracy | 5% |
| Sensitivity adjustment | No |

Application

| | |
|--------------------|------------------------------------|
| Function Principle | Background suppression |
| Notes | white target Kodak 90% 100 x 100mm |
| Optic position | Radial 90° |

Outputs

| | |
|---------------------|----------------------|
| Output type | TRIAC L/D Selectable |
| Output Function | L/D Selectable |
| Switching frequency | 25Hz |
| Response time | 20ms |

Electrical data

| | |
|--------------------------------|--|
| Operating Voltage | 20...253VAC/50-60Hz |
| No-Load supply current | $\leq 40\text{mARMS}$ |
| Load current | 5...300mARMS |
| Leakage current | $\leq 1,5\text{mARMS}$ IL=250Vca |
| Output voltage drop | $\leq 3\text{V}@I_{\text{load}}=300\text{mARMS}$ |
| Max ripple content | $\leq 10\%$ |
| LED indicators | Yellow (status output) |
| Time delay before availability | $\leq 200\text{ms}$ |
| Emission | LED Infrared (880nm) |

| | |
|--------------------------------|--|
| Interference to external light | 3.000lux (incandescent lamp), 10.000lux (sunlight) |
|--------------------------------|--|

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|----------------------------------|-----|
| Impulsive Overvoltage Protection | Yes |
|----------------------------------|-----|

Mechanical data

| | |
|------------|----------------|
| Dimensions | M18x1/L=88,8mm |
|------------|----------------|

| | |
|--------|-----|
| Weight | 30g |
|--------|-----|

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|------------------|---------------|
| Housing Material | PBT / PC plug |
|------------------|---------------|

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|-------------|----------|
| Connections | M12 plug |
|-------------|----------|

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

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

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|-----------------------|-----------------------------------|
| Operating temperature | - 25°C...+ 70° C (without freeze) |
|-----------------------|-----------------------------------|

| | |
|---------------------|----------------|
| Storage temperature | - 55°C...+80°C |
|---------------------|----------------|

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

Test/Approvals

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

| | |
|-------------------|--------------|
| EMC compatibility | EN 60947-5-2 |
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|-----------------------|--|
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |
|-----------------------|--|

| | |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

Accessories

| | |
|----------------------|--------------|
| Supplied Accessories | Nuts M18 x 1 |
|----------------------|--------------|

Generical Data

Dimensions

M18x1/L=88,8mm

Operating Temperature

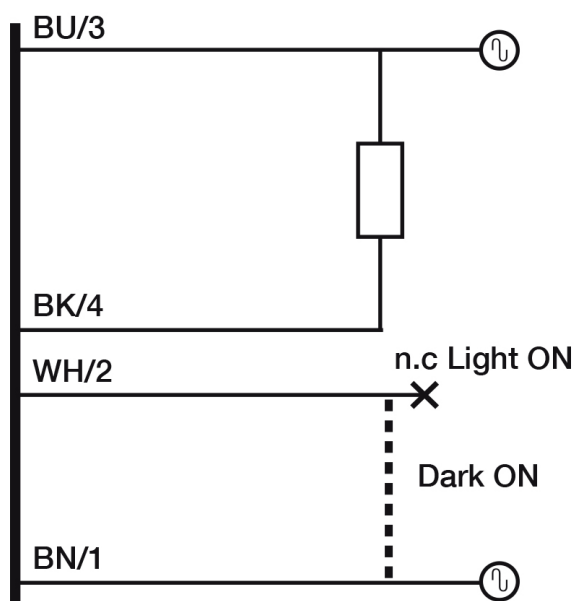
- 25°C...+ 70°C (Without freeze)

Mechanical Protection

IP67

CONNECTIONS

Electrical diagram

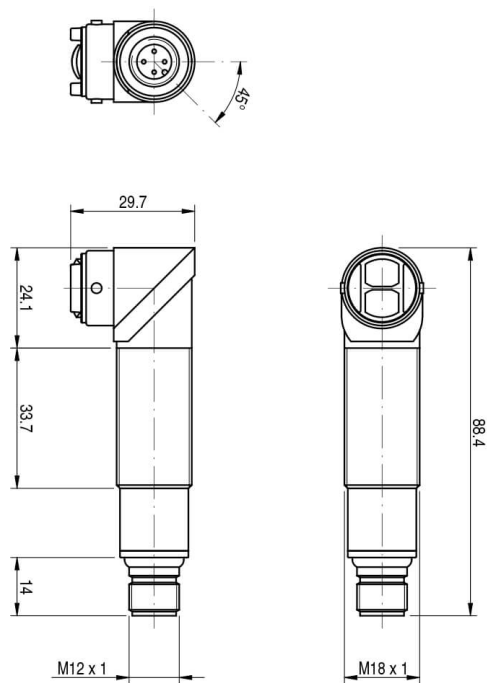


Connector

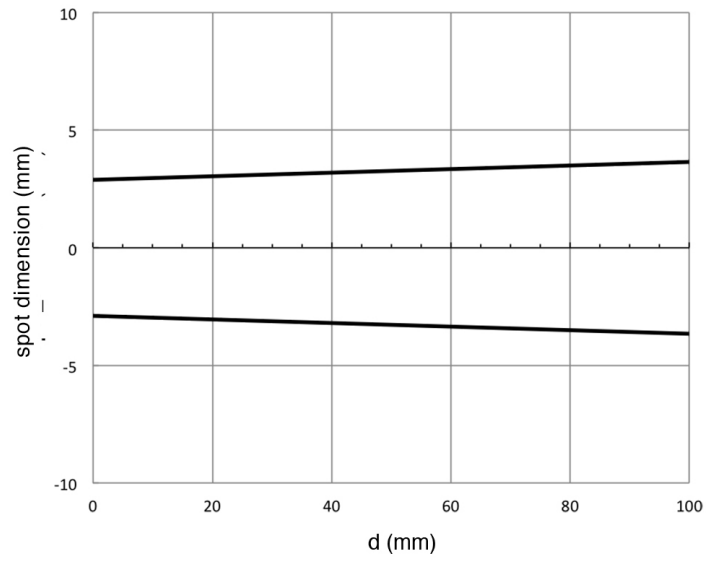


OTHERS

Dimensions



Response curves



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