





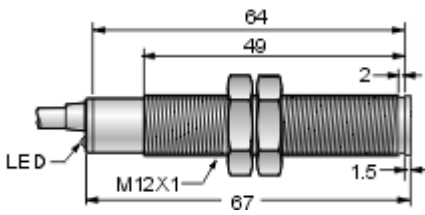
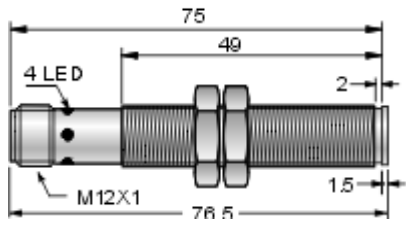


DC PHOTOELECTRIC SENSOR (FM12)

| Type | FM12 | | FM12 | | |
|--------------------------|---|---------------------|---|---------------------|-----|
| Sensing Mode | Through-beam mode | | Through-beam mode | | |
| Sensing Picture |  | |  | | |
| Switching Distance (Sn) | 10M | | 10M | | |
| Picture |  | |  | | |
| Nominal Voltage | 10-30VDC | | 10-30VDC | | |
| Residual Ripple | <10% | | <10% | | |
| Tolerance | ±10%Sn | | ±10%Sn | | |
| Hysteresis | 10% | | 10% | | |
| Emission | Infrared(880nm) | | Infrared(880nm) | | |
| Output | NPN or PNP | | NPN or PNP | | |
| Contact | Light ON or Dark ON | | Light ON or Dark ON | | |
| Max. Output Current | 150mA | | 150mA | | |
| No Load Current | 30mA or less | | 30mA or less | | |
| Voltage Drop(Sensor On) | <2.5V | | <2.5V | | |
| Sensitivity Adjustment | - | | - | | |
| Response Time | 1mS | | 1mS | | |
| Short Circuit Protection | Yes | | Yes | | |
| Electric Protections | Yes | | Yes | | |
| Temperature Limits | -25 ~ +55℃ | | -25 ~ +55℃ | | |
| Ambient Humidity | 35 to 85% RH | | 35 to 85% RH | | |
| Light Immunity | >10.000Lux | | >10.000Lux | | |
| Protection Degree | IP67 | | IP67 | | |
| Housing Material | PBT Plastic or Nickel Plated Brass | | PBT Plastic or Nickel Plated Brass | | |
| Sensing object | φ8mm or more | | φ8mm or more | | |
| Brass Housing | Emitter | F1BT-M12010MDE-I3B2 | A11 | F1BT-M12010MDE-IPB4 | A13 |
| | NPN N. O. | F1BT-M12010MNL-I3A2 | A7 | F1BT-M12010MNL-IPA4 | A10 |
| | NPN N. C. | F1BT-M12010MND-I3A2 | A7 | F1BT-M12010MND-IPA4 | A10 |
| | PNP N. O. | F1BT-M12010MPL-I3A2 | A8 | F1BT-M12010MPL-IPA4 | A10 |
| | PNP N. C. | F1BT-M12010MPD-I3A2 | A8 | F1BT-M12010MPD-IPA4 | A10 |
| Plastic Housing | Emitter | F1PT-M12010MDE-I2B2 | A11 | F1PT-M12010MDE-IPB4 | A10 |
| | NPN N. O. | F1PT-M12010MNL-I3A2 | A7 | F1PT-M12010MNL-IPA4 | A10 |
| | NPN N. C. | F1PT-M12010MND-I3A2 | A7 | F1PT-M12010MND-IPA4 | A10 |
| | PNP N. O. | F1PT-M12010MPL-I3A2 | A8 | F1PT-M12010MPL-IPA4 | A10 |
| | PNP N. C. | F1PT-M12010MPD-I3A2 | A8 | F1PT-M12010MPD-IPA4 | A10 |
| Wiring Diagram |  | |  | | |
| Dimensions (unit: mm) |  | |  | | |
| Terminal Version | 2M PVC (3x0.15mm2) | | M8 Pico-style | | |
| Weight | Approx. 67g | | Approx. 40g | | |

Subject to modifications without notice

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