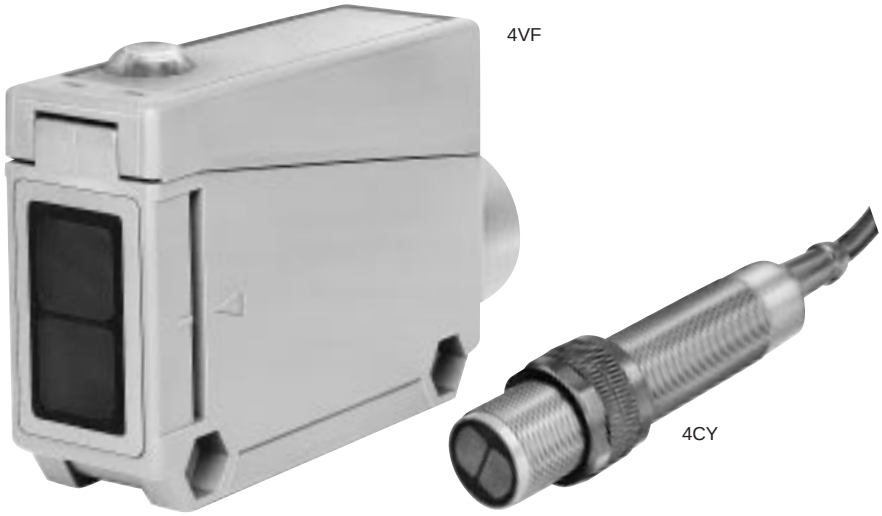
4VF and 4CY

Sensors

A range of through-beam, retro-reflective and diffuse-reflective beam sensors



4VF Beam Sensor

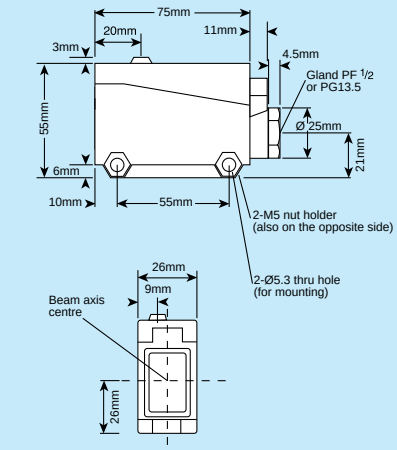
These units combine a superior performance with a range of options catering for most industrial requirements. All versions are sealed to IP66 and will operate over the temperature range -10°C to +60°C at relative humidity levels up to 85%.

The beam sensors are based on a modulated infra red LED as the light source and offer a high immunity to extraneous light and line-borne electrical interference.

- **Environmental protection to IP66.**
- **Relay contact or semiconductor output.**
- **Advanced mechanical design aids installation and wiring.**
- **AC or DC operation.**
- **A light ON/dark OFF selector switch is provided on all models and versions are optionally available with an integral timer control (0.1 - 5.0s). The cases are moulded in PTB and acrylic lenses are used. Electrical connection is via terminals and cable runs can be up to 100m.**
- **Mounting brackets, reflectors (where appropriate) and other accessories are supplied as standard with all units.**

Dimensions

4VF



4CY Beam Sensor

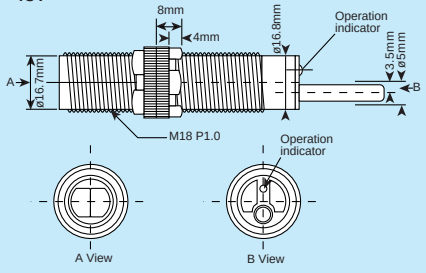
This range of beam sensors in cylindrical cases offers a choice of solid state AC or DC outputs. All the models feature a visible red LED to indicate output status. Series 4CY beam sensors have high immunity to fluorescent light and sunlight as well as line-borne electrical interference.

The cases are of moulded plastic, shock resistant and sealed to IP67. All models will operate over the temperature range -25°C to +55°C at relative humidity levels up to 85%.

- **Environmental protection to IP67.**
- **Semiconductor output.**
- **Shock resistant.**
- **Low cost.**

Dimensions

4CY

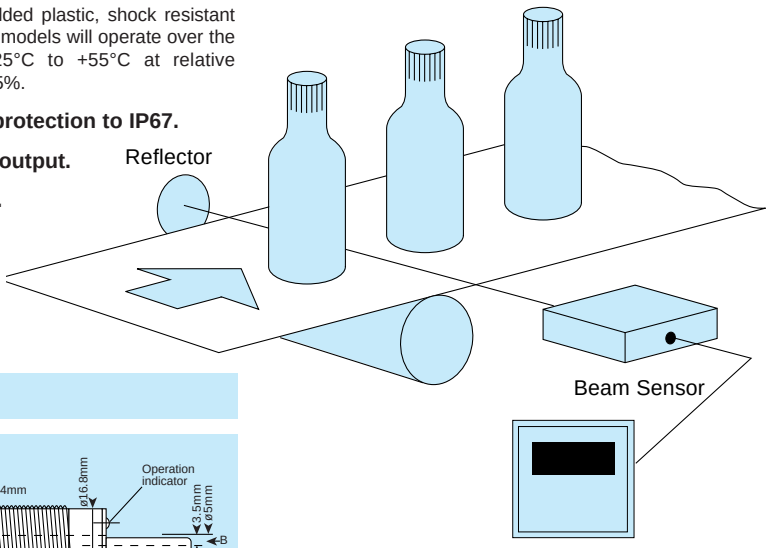


Specification

Supply Voltage
24-240VAC ±10% or 12-240VDC (Multi-voltage 4VF).
12-24VDC (DC 4VF)
Achieved Detection Ranges
(Subject to object size limits)
(4VF)
10m for through beam (opaque objects). 5m for retro-reflective (opaque and translucent objects). 50cm for diffuse-reflective (opaque, translucent and transparent objects)
Diffuse-Reflective Hysteresis (4VF)
<15% (relay output models). <10% (semiconductor output models)
Response Times (4VF and 4CY Ranges)
<20ms (relay output 4VF models and 4CY AC models)
<3ms (semiconductor output models)

Typical Applications

*Counting and sorting
*Position detection
*Inspecting
*Safety and security



Ordering Information

Multi-voltage abbreviated to MV in table below.

4VF Range

4VF-M10	10m Range	MV	Through-beam
4VF-M10T	10m Range	MV	Through-beam with timer
4VF-RM5	5m Range	MV	Retro-reflective
4VF-RM5T	5m Range	MV	Retro-reflective with timer
4VF-D500	50cm Range	MV	Diffuse-reflective
4VF-D500T	50cm Range	MV	Diffuse-reflective with timer
4VF2-M10	10m Range	DC	Through-beam
4VF2-RM5	5m Range	DC	Retro-reflective
4VF2-D500	50cm Range	DC	Diffuse-reflective

4CY Range

4CY-17A	1-3M Range*	AC	Retro-reflective	Light-on
4CY-17B	1-3M Range*	AC	Retro-reflective	Dark-on
4CY-12A	120mm Range	AC	Diffuse-reflective	Light-on
4CY-12B	120mm Range	AC	Diffuse-reflective	Dark-on
4CY-27	1-3M Range*	DC	Retro-reflective	
4CY-22	120mm Range	DC	Diffuse-reflective	

*The sensing range for the retro-reflective sensors is determined by the reflector used. RF-210 - 1 metre, RF-220 - 2, RF-230 - 3 metres.

Please telephone or fax for the TRUMETER Sensors catalogue for complete range of sensors available.

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