

Photoelectric sensors transmit a beam which is reflected back from a detected object (*diffused*) or from a reflector (*retro-reflective*) or can be used with a separate transmitter and receiver (*through-beam*), typically used for longer distance sensing.

- Protection degree: IP67 (EN60529)
- Ambient limits: -25 ... +70°C
- Supply protection: Polarity reversal, transient, short circuit
- LED indication: Incorporated
- Housing material: PBT (*plastic*) available in metal (*on request only*)



FAI2/BP-0A



FAI6/BN-2E



MV2/A0-0A



MVC/A0-0A

type	supply voltage	sensitivity adj.	diffused	retro-reflective	polarised retro	through-beam	sensing distance (mm)	NPN	PNP	NO	NC	connector
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M18 FA series axial beam 10 - 30 VDC IP67 (EN60529) Ø18 mm x 65/80 mm

Diffuse reflection proximity type detection (no transmitter or reflector required)

Model	Supply Voltage	Sensitivity Adj.	Diffused	Retro-reflective	Polarised Retro	Through-beam	Sensing Distance (mm)	NPN	PNP	NO	NC	Connector
FAR2/BN-0A	10 - 30 VDC		•				100 mm	•	•	•	•	cable
FAR2/BP-0A	10 - 30 VDC		•				100 mm		•	•	•	cable
FAI6/BN-0A	10 - 30 VDC		•				400 mm	•		•	•	cable
FAI6/BP-0A	10 - 30 VDC		•				400 mm		•	•	•	cable
FAI6/BN-2E*	10 - 30 VDC		•				400 mm	•	•	•	•	M12 plug
FAI6/BP-2E*	10 - 30 VDC		•				400 mm		•	•	•	M12 plug
FAI7/BN-0E	10 - 30 VDC		•	•			400 mm	•		•	•	M12 plug
FAI7/BP-0E	10 - 30 VDC		•	•			400 mm		•	•	•	M12 plug
FAI8/BN-2E*	10 - 30 VDC		•	•			800 mm	•		•	•	M12 plug
FAI8/BP-2E*	10 - 30 VDC		•	•			800 mm		•	•	•	M12 plug
FAI8/BN-0E	10 - 30 VDC		•	•			1000 mm	•		•	•	M12 plug
FAI8/BP-0E	10 - 30 VDC		•	•			1000 mm		•	•	•	M12 plug

With adjustable background suppression

Model	Supply Voltage	Sensitivity Adj.	Diffused	Retro-reflective	Polarised Retro	Through-beam	Sensing Distance (mm)	NPN	PNP	NO	NC	Connector
FARS/BP-0E	10 - 30 VDC	•	•				30...130	•	•	•	•	M12 plug
FARW/BP-0E	10 - 30 VDC	•	•				35...300	•	•	•	•	M12 plug

Retro-reflective

used together with a reflector

Model	Supply Voltage	Sensitivity Adj.	Diffused	Retro-reflective	Polarised Retro	Through-beam	Sensing Distance (mm)	NPN	PNP	NO	NC	Connector
FAIC/BN-0A	10 - 30 VDC			•			5 meters	•		•	•	cable
FAIC/BP-0A	10 - 30 VDC			•			5 meters		•	•	•	cable
FAIC/BN-2E*	10 - 30 VDC			•			4 meters	•		•	•	M12 plug
FAIC/BP-2E*	10 - 30 VDC			•			4 meters		•	•	•	M12 plug

Retro-reflective (polarised)

used together with a reflector

Model	Supply Voltage	Sensitivity Adj.	Diffused	Retro-reflective	Polarised Retro	Through-beam	Sensing Distance (mm)	NPN	PNP	NO	NC	Connector
FARP/BN-0A	10 - 30 VDC				•		4 meters	•		•	•	cable
FARP/BP-0A	10 - 30 VDC				•		4 meters		•	•	•	cable

Through beam (receiver)

requires a emitter and receiver

Model	Supply Voltage	Sensitivity Adj.	Diffused	Retro-reflective	Polarised Retro	Through-beam	Sensing Distance (mm)	NPN	PNP	NO	NC	Connector
FAI2/BN-0A	10 - 30 VDC					•	20 meters	•	•	•	•	cable
FAI2/BP-0A	10 - 30 VDC					•	20 meters		•	•	•	cable
FAI2/BP-2E*	10 - 30 VDC					•	15 meters		•	•	•	M12 plug
FAIH/00-0A	10 - 30 VDC					•	20 meters	emitter				cable
FAIH/00-2E*	10 - 30 VDC					•	15 meters	emitter				M12 plug

* Radial optic (90° sensing)

M18 MV series axial beam 20 - 253 VAC IP67 (EN60529) Ø18 mm x 79 mm

Diffuse reflection proximity type detection (no transmitter or reflector required)

Model	Supply Voltage	Sensitivity Adj.	Diffused	Retro-reflective	Polarised Retro	Through-beam	Sensing Distance (mm)	NPN	PNP	NO	NC	Connector
MV2/A0-0A	20 - 253 VAC		•				100 mm	TRIAC	•			cable
MV2/C0-0A	20 - 253 VAC		•				100 mm	TRIAC		•		cable
MV4/A0-0A	20 - 253 VAC		•				200 mm	TRIAC	•			cable
MV4/C0-0A	20 - 253 VAC		•				200 mm	TRIAC		•		cable
MV6/A0-0A	20 - 253 VAC		•				400 mm	TRIAC	•			cable
MV6/C0-0A	20 - 253 VAC		•				400 mm	TRIAC		•		cable

Retro-reflective

used together with a reflector

Model	Supply Voltage	Sensitivity Adj.	Diffused	Retro-reflective	Polarised Retro	Through-beam	Sensing Distance (mm)	NPN	PNP	NO	NC	Connector
MVC/A0-0A	20 - 253 VAC			•			4 meters	TRIAC	•			cable
MVC/C0-0A	20 - 253 VAC			•			4 meters	TRIAC		•		cable

Through beam (receiver)

requires a transmitter and receiver

Model	Supply Voltage	Sensitivity Adj.	Diffused	Retro-reflective	Polarised Retro	Through-beam	Sensing Distance (mm)	NPN	PNP	NO	NC	Connector
MVR/A0-0A	20 - 253 VAC					•	16 meters	TRIAC	•			cable
MVR/C0-0A	20 - 253 VAC					•	16 meters	TRIAC		•		cable
MVE/00-0A	20 - 253 VAC					•	16 meters	emitter				cable

Mounting accessories (see page K-8) Cables and M8/12 connectors (see page K-27 / 28)

Note: Reflectors sold separately, see page K-8