

SA1E Miniature Photoelectric Switches

Key features:

- Seven sensing methods: through-beam, polarized retroreflective, small beam reflective, diffuse, background suppression, convergent, and transparent.
- 2m cable type and M8 connector.
- NPN output, PNP output, light ON, dark ON can be selected.
- Coaxial polarized retro-reflective type (SA1E-X) available for sensing transparent objects.
- Background suppression (SA1E-B) type detects objects only, ignoring the background.
- Red LED available for easy alignment in long distance applications (SA1E-T, -P, -N, and -B)
- Convergent reflective type (SA1E-G) is ideal for detecting objects at a short distance with a background.
- Also available without sensitivity adjustment (SA1E-T, -P)
- Air blower mounting block for installing an air blower to clean the lens surface. Ideal to maintain a clean lens surface and sensor performance.
- UL Listed and CE marked
- IP67



Part Numbers

Photoelectric Switches

Sensing Method		Sensing Range	Connection	Cable Length	Operation Mode	Part No.	
						NPN Output	PNP Output
Through-beam	Infrared LED w/Sensitivity Adjustment	10m	Cable	2m	Light ON	SA1E-TN1-2M	SA1E-TP1-2M
					Dark ON	SA1E-TN2-2M	SA1E-TP2-2M
			Connector	-	Light ON	SA1E-TN1C	SA1E-TP1C
					Dark ON	SA1E-TN2C	SA1E-TP2C
	Infrared LED w/o Sensitivity Adjustment	15m	Cable	2m	Light ON	SA1E-TN1-NA-2M	SA1E-TP1-NA-2M
					Dark ON	SA1E-TN2-NA-2M	SA1E-TP2-NA-2M
			Connector	-	Light ON	SA1E-TN1C-NA	SA1E-TP1C-NA
					Dark ON	SA1E-TN2C-NA	SA1E-TP2C-NA
	Red LED w/Sensitivity Adjustment	10m	Cable	2m	Light ON	SA1E-TAN1-2M	SA1E-TAP1-2M
					Dark ON	SA1E-TAN2-2M	SA1E-TAP2-2M
			Connector	-	Light ON	SA1E-TAN1C	SA1E-TAP1C
					Dark ON	SA1E-TAN2C	SA1E-TAP2C
Class 1 Laser w/Sensitivity Adjustment	30m	Cable	2m	Light ON/ Dark ON	SA1E-LTN3-2M	SA1E-LTP3-2M	
		Connector	-	Light ON/ Dark ON	SA1E-LTN3C	SA1E-LTP3C	

OI Touchscreens

PLCs

Automation Software

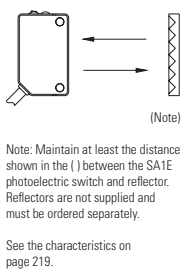

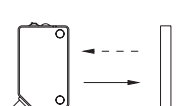
Power Supplies

Sensors

Communication

Barriers

Photoelectric Switches

Sensing Method		Sensing Range	Connection	Cable Length	Operation Mode	Part No.		
						NPN Output	PNP Output	
Polarized Retroreflective	Red LED	 <p>2.5m (100 mm) When using IAC-R5/R8</p> <p>1.5m (100 mm) When using IAC-R6</p> <p>1.3m (150 mm) When using IAC-RS2</p> <p>1.0m (150 mm) When using IAC-RS1</p> <p>0.8m (100 mm) When using IAC-R5/R8□</p>	Cable	2m	Light ON	SA1E-PN1-2M	SA1E-PP1-2M	
					Dark ON	SA1E-PN2-2M	SA1E-PP2-2M	
					Connector	Light ON	SA1E-PN1C	SA1E-PP1C
						Dark ON	SA1E-PN2C	SA1E-PP2C
						w/Sensitivity Adjustment	 <p>3.0m (100 mm) When using IAC-R5/R8</p> <p>2.0m (100 mm) When using IAC-R6</p> <p>1.4m (150 mm) When using IAC-RS2</p> <p>1.1m (150 mm) When using IAC-RS1</p> <p>1.0m (100 mm) When using IAC-R7□</p>	Cable
	Dark ON	SA1E-PN2-NA-2M	SA1E-PP2-NA-2M					
	Connector	Light ON	SA1E-PN1C-NA	SA1E-PP1C-NA				
		Dark ON	SA1E-PN2C-NA	SA1E-PP2C-NA				
		w/o Sensitivity Adjustment	 <p>Note: Maintain at least the distance shown in the () between the SA1E photoelectric switch and reflector. Reflectors are not supplied and must be ordered separately. See the characteristics on page 219.</p>	Cable	2m			
	Connector					Light ON/Dark ON	SA1E-LPN3C	SA1E-LPP3C

OT Touchscreens

PLCs

Automation Software

Power Supplies

Sensors

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Barriers