Danaher — Timers and Controllers

SS7B-481MDOR



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The **SS7B-481MDOR** is a through-beam photoelectric sensor array produced by Danaher as part of its Timers and Controllers series. Designed as a light curtain with aligned emitter and receiver bars, the unit detects interruptions in its infrared beams to signal the presence of an object on a conveyor, in a palletizer cell, or at a packaging station. Within automated equipment, it provides relay outputs that can trigger downstream logic for counting, gating, or interlock tasks.

The array projects **65** parallel beams with a spacing of **19.05 mm** between adjacent beams. Objects that meet or exceed the stated minimum size of **31.75 mm** reliably block at least one beam. With a maximum sensing span of **45 ft**, the emitter and receiver can be mounted across medium-sized in-feed zones without mirrors. When a beam is interrupted, the system responds within **30 ms**, which is suitable for detecting objects moving at typical conveyor speeds. The housing contains **2** captive-contact relays that change state when detection occurs, allowing separate connections to control circuits. The device accepts a standard input frequency of 50/60 Hz throughout its supported supply range.

Control power is supplied at **115 VAC**, and each relay can carry up to **10 A**. The voltage across the relay contacts may reach **380 VAC**. A separate 7 A fuse rating supports coordinated circuit protection when the device is wired with appropriate protective equipment. The enclosure is made from cold-rolled steel and finished with an epoxy powder coating that resists abrasion and coolant splashes. The unit can operate at ambient temperatures up to 55 °C. Its captive-contact relay design prevents manual repositioning of the armature. Factory-set brackets maintain

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the alignment of the through-beam optics and preserve consistent spacing between the projected beams during normal machine vibration.

Specifications

Beam Count:	65	**Beam Spacing:**	19.05 mm	**Contact Fuse Rating:**	7 A
Detection Method:	Through-Beam	**Enclosure Finish:**	Epoxy Powder Coat	**Enclosure Material:**	Cold-Rolled Steel
Maximum Ac Contact Current:	10 A	**Maximum Ac Contact Voltage:**	380 VAC	**Maximum Operating Temperature:**	55 °C
Maximum Sensing Distance:	45 ft	**Minimum Object Sensitivity:**	31.75 mm	**Output Relay Count:**	2
Output Type:	Captive-Contact Relay	**Response Time:**	30 ms	**Supply Frequency:**	50/60 Hz
Supply Voltage:	115 VAC	**Last Verified:**	11/15/2026 10:49 AM		

Contact Us

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