

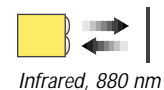


# MINI-BEAM® SM312W and SM312DBZ

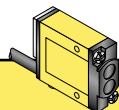
Self-contained DC-operated Wide-angle Diffuse Mode Proximity Sensors



- Compact, modulated, self-contained infrared wide-angle diffuse proximity mode sensors for 10-30V dc operation
- SM312W wide angle (divergent) diffuse mode sensor, 125 mm (5 in) range; Ideal for close-range sensing of transparent or translucent objects, or objects with small profile
- SM312DBZ: wide-angle diffuse mode sensor, 300 mm (12 in) range
- Both models have clear acrylic opto-element covers to meet FDA food-processing application requirements
- Switch-selectable for light operate or dark operate
- Includes Banner's exclusive **AID™** alignment system\*
- Highly-repeatable 1 millisecond response
- Both sourcing and sinking outputs (150 mA max. each); continuous overload and short-circuit protected
- Rugged, epoxy-encapsulated construction: meets NEMA standards 1, 2, 3, 3S, 4, 4X, 6, 12 and 13; IEC IP67



\*US patent number 4356393



## MINI-BEAM Diffuse Mode Models

Models	Range	Cable*	Supply Voltage	Output Type	Excess Gain	Beam Pattern
					Performance based on 90% reflectance white test card	
SM312DBZ SM312DBZQD	300 mm (12")	2 m (6.5') 4-Pin Euro QD	10-30V dc	Bipolar NPN/PNP		
SM312W SM312WQD	130 mm (5")	2 m (6.5') 4-Pin Euro QD	10-30V dc	Bipolar NPN/PNP		

**\*NOTES:**

- 9 m (30') cables are available by adding suffix "W/30" to the model number of any cabled sensor (e.g., SM312DBZ W/30).
- A 150 mm (6") long pigtail cable with attached QD connector is available by adding suffix "QDP" to the model number of any MINI-BEAM sensor (e.g., SM312DBZQDP). See page 5 for more information.
- A model with a QD connector requires an accessory mating cable. See page 6 for more information.
- May be ordered with 0.3 millisecond on/off response by adding suffix "MHS" to the model numbers (e.g., SM312DBZMHS). This modification reduces sensing range (and excess gain).