

# Door Presence and Safety Sensor Technical Specifications

Technology	LASER scanner, Time-of-Flight measurement (7 LASER curtains)
Detection Mode	Motion and Presence
Max. Detection Range	1 x mounting height 1 1/5 x mounting height (Adjustable depending on user settings)
Thickness of First Curtain	3/4" per 3' of mounting height
Typ. Mounting Height	6'6" – 19'6"
Typ. Minimum Object Size	6" @ 19'6" (in proportion to object distance)
Test Body Dimensions	27 1/2" × 11 3/4" × 7 3/4"
Min. Reflectivity Factor	> 2% (of floor and object) (Measured at max. 19'6" in safety field)
Emission Characteristics IR LASER Visible LASER	Wavelength 905 nm; Maximum output pulse power 0.10 mW (CLASS 1) Wavelength 635 nm; Maximum output CW power 0.95 mW (CLASS 2)
Supply Voltage	12 – 24 VAC ±10% 12 – 30 VDC ±10% @ sensor terminal
Power Consumption Heating: Off Heating: Eco or Auto	< 2.5 W < 15 W
Response Time	Typ. 100 ms (max. 500 ms)
Output	2 solid-state relays (galvanic isolation, polarity free) 30 VDC (max. switching voltage) – 100 mA (max. switching current) - in switching mode: NO / NC - in frequency mode: pulsed signal (f= 100 Hz ±10%) 1

	electro-mechanic relay (galvanic isolation, polarity free) 42 VAC (max. switching voltage) – 500 mA (max. switching current)
Input	30 VDC (max. switching voltage) Low < 1 V high > 10 V (voltage threshold)
LED-Signal	2 tri-colored LEDs: Output status / Remote Control Response / Error Signals
Dimensions	7 3/4" (H) × 6" (W) × 4" (D) (approx.)
Material / Color	PC / ASA / Black
Rotation Angles on Bracket	45° to the right, 15° to the left (lockable)
Tilt Angles on Bracket	-10 – 5°
Degree of Protection	NEMA 4 / IP65
Temperature Range	22 – 140 °F
Vibrations	< 2 G
Norm Conformity	IEC 61000-6-2, IEC 61000-6-3, IEC 60950-1, IEC 60825-1, ISO 13849-1 PI "d"/ CAT2, IEC 62061 SIL 2, IEC 61496-1 ESPE Type 2



4710 N Brady St Davenport, IA 52806 1-800-397-6690 [sales@barroneq.com](mailto:sales@barroneq.com) [www.barroneq.com](http://www.barroneq.com)