XUK9LAPSMM12 Laser Polarised Reflex sensor, energetic



EC LAB





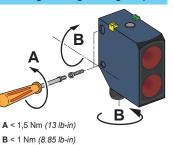


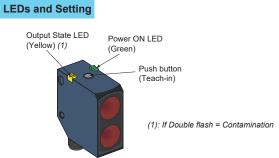
https://tesensors.com/global/en/document/S1B75484

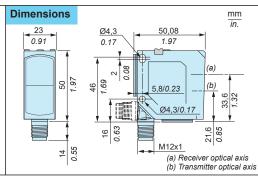
Scan the Qr-code to access this Instruction Sheet in different languages or you can download it from our website at: www.tesensors.com

We welcome your comments about this document. You can reach us through the customer support page on your local website.

Mounting and Tightening torques

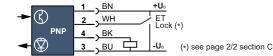






Wiring diagrams



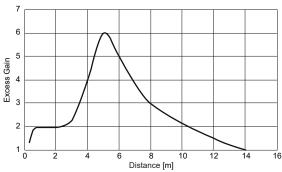




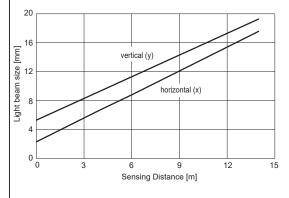


Detection curves

Excess Gain



Light beam size



Characteristics

Certification		CE - UKCA - cULus - Ecolab
Sensing distance M	1ax.	0,314 m / 0.9845.93 ft
S	n	0,312 m / 0.9839.37 ft (with reflector: XUZC50HP)
Smallest detectable part		≤ 2 mm up to 1 m / ≤ 0.08 in up to 39.4 in
Sensing distance setting		Teach button or control input ET / Lock
Color of detection light beam		Laser class 1, red, 655 nm
Spot size of the light beam		see "Light beam size" curve
Wavelength		$\lambda = 655 \text{ nm}$
Puls duration		t = 3,6 µs
Frequency		f = 10,75 kHz
Limit of radiant power pulse		Pp = 1,73 mW
Output type		PNP (N.O. or N.C.)
Current consumption		≤ 30 mA
Switching capacity		≤ 100 mA
Switching frequency		≤ 2000 Hz
First-up delay		300 ms max.
Response time		2 ms max.
Recovery time		2 ms max.
Ambient Temperature		Operating : - 20+60 °C (-4+140 °F) Storage : - 20+80 °C (-4+176 °F)
Power Voltage		Rated operational voltage: 1224 Vdc Ripple p-p 10% maximum Operating range: 1030 Vdc (including ripple)
Product Protection		Power supply : Reverse polarity protection
		Output: Short circuit protection
Protection class		
Degree of protection		IP67 conforming to EN/IEC 60529 IP69K conforming to DIN 40050
Vibration resistance		Frequency range: 10 Hz to 55 Hz Acceleration: 7 gn
Shock resistance		Peak acceleration: 30 gn Duration of the pulse: 11 ms
Permitted cable length		100 m / 328.1 ft
Material		Housing: ABS/PC, Lens: PMMA
Factory setting		max. scanning distance and N.O.

WARNING

UNINTENDED EQUIPMENT OPERATION

Comply with the wiring and configuration instructions.
Clean the lens regularly, taking care not to scratch it.
Check the connections and fixings during maintenance operations.

Failure to follow these instructions can result in death, serious injury or equipment damage.

CAUTION

HAZARD OF LASER RADIATION EXPOSURE

Do not stare into the beam.
Do not operate below - 20°C (- 4°F)
Follow all operating instructions.

Failure to follow these instructions can result in injury or equipment damage



CLASS 1 LASER PRODUCT (DIN EN 60825-1) Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser Notice No. 50 dated June 24, 2007

Electrical equipment should be installed, operated and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

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Adjustment and setting Push briefly Legend: Long push \otimes Fast flashing OFF ON GN: Green YE: Yellow Object Action duration A Setting of scanning distance Factory setting = 12 m / 39.4 ft at reflector XUZC50HP. Check operation conditions. Align light spot to reflector. Setting on object With free light path, push button (approx. 3 s) until both LEDs flash synchronously. ₹3s Release button (LEDs flash asynchronously). \otimes GN GN YE When object is not moving (static): Place object in sensing range. Push button briefly (1 s). Release button. The setting is saved. The sensor is ready for use. If the object is I detected, the yellow status LED is on (N.O. setting) or is off (N.C. setting). GN > 1 object cycle When object is moving (dynamic): Press the pushbutton and keep it pressed until the object has passed at least once. Release the button. The object and the reflector have been taken into account. The setting is saved. The sensor is ready for use. R If the object is detected, the yellow status LED is on (N.O. setting) or is off (N.C. Dynamic process setting). N.O. → N.C. 1 ₹13s B Setting of N.O. / N.C Without object, press the receiver learning button for (about) 13 s. The green LED flashes rapidly. As long as the green LED is flashing, press the learning button for 1 s to invert the N.O. Without object, yellow LED off = N.O., yellow LED on = N.C. N.C. → When OK, do not push the button for 10 s. Setting is saved. Sensor is ready to operate. N.C. → N.O. ₹13s Setting with input (ET - External Teach / Lock) N.Č. +UB = Teach-in (as button) - UB = Button locked N.O. not connected = Normal operation (free run).



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