XUK2LA•SMM12R/T Laser Through-beam sensor





EC®LAB

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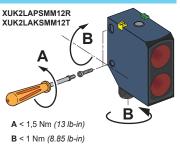


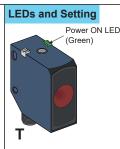
https://tesensors.com/global/en/document/S1B75481

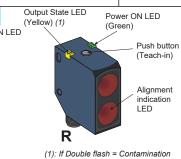
Scan the Qr-code to access this Instruction Sheet in different languages or you can download it from our website at: www.tesensors.com

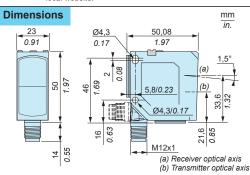
We welcome your comments about this document. You can reach us through the customer support page on your local website.

Mounting and Tightening torques



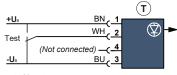


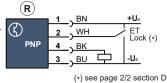




Wiring diagrams







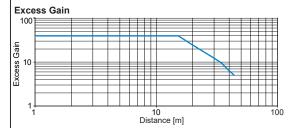




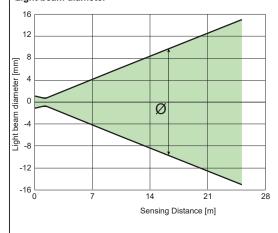
Wiring precautions
Use certified CYJV or R/C CYJV2

Transmitter control input: $\begin{array}{l} \text{Test} \rightarrow \textbf{+}\textbf{U}_{\text{B}} = \text{Test (transmitter OFF)} \\ \text{Test} \rightarrow \textbf{-}\textbf{U}_{\text{B}} \text{ or not connected} = \text{Normal operation} \end{array}$

Detection curves



Light beam diameter



Characteristics

Certification	CE - UKCA - cULus - Ecolab
Maximum sensing distance	30 m / 98.42 ft
Scanning range	025 m / 082.02 ft
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 diameter" curve
Wavelength	λ = 655 nm
Puls duration	t = 0.7 μs
Frequency	f = 70 kHz
Limit of radiant power pulse	Pp = 4.5 mW
Output type	PNP (N.O. or N.C.)
Current consumption	≤ 30 mA
Switching capacity	≤ 100 mA
Switching frequency	≤ 3500 Hz
First-up delay	300 ms max.
Response time	0,14 ms max.
Recovery time	0,14 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
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

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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 Legend: Long push By button or control input. Factory setting = max. scanning distance \otimes Flashing Fast flashing OFF ON GN: Green Action duration YE: Yellow A Initial setting with XUK2LAKSMM12T 1 Check operation conditions. With free light path, align light spot XUK2LAKSMM12T to XUK2LAPSMM12R. Pay attention to alignment indication (LED 3,red in front screen of XUK2LAPSMM12R). If it is on, alignment is OK. B Adaption to application XUK2LAPSMM12R With free light path, push button on XUK2LAPSMM12R (approx. 3 s) until both ₹3s LEDs flash synchronously. Release button (LEDs flash asynchronously). When object is not moving (static): Place object in sensing range. Push button briefly (1 s). I Release button. R 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 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 setting). N.O. → N.C. (1) C Setting of N.O. / N.C ₹13s 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. When OK, do not push the button for 10 s. Setting is saved. Sensor is ready to operate. .<u>→</u> N.O. **1** N.C. ₹13s



+U_B = Teach-in (as button)

- UB = Button locked

not connected = Normal operation (free run).



N.C.

Manufacturer:

Schneider Electric Industries SAS 35 rue Joseph Monier 92500 Rueil Malmaison



N.O.

UK Representative :

Schneider Electric Limited Stafford Park 5 Telford, TF3 3BL United Kingdom



Уполномоченный поставщик в Республике Казахстан:

ТОО «Шнейдер Электрик»

Адрес: 050010, PK, г. Алматы, пр. Достык, 38, Бизнес Центр «Кен Дала», 5 этаж. Тел. +7 (727) 3 57 23 57

Факс.: +7 (727) 357 24 39

Қазақстан Республикасында ресми жеткізуші:

ЖШС «Шнейдер Электрик» Мекен-жайы: 050010,Қазақстан Республикасы, Алматы қ., Достык даң. 38, «Кен Дала» Бизнес Орталығы, 5-ші қабат.

Тел.: +7 (727) 357 23 57 Факс.: +7 (727) 357 24 39