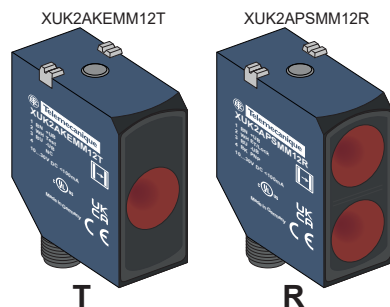


XUK2A●●MM12R/T Through-beam sensor



ECOLAB



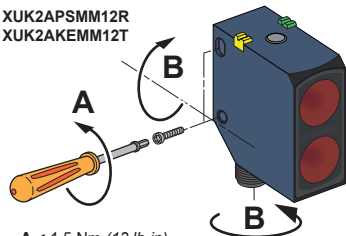
Thru-beam


<https://tesensors.com/global/en/document/NVE91944>

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.

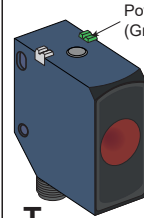
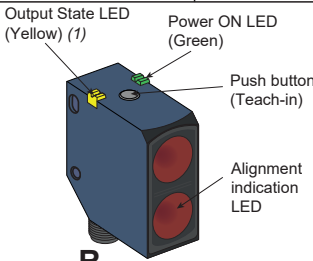
Mounting and Tightening torques

XUK2APSM12R
XUK2AKEM12T

A < 1,5 Nm (13 lb-in)

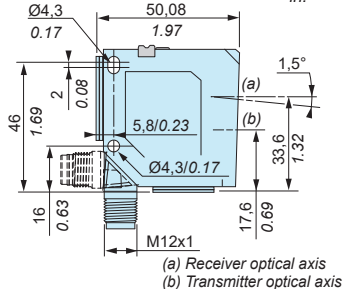
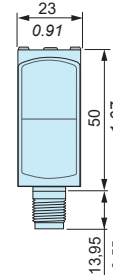
B < 1 Nm (8.85 lb-in)

LEDs and Setting

Power ON LED
(Green)

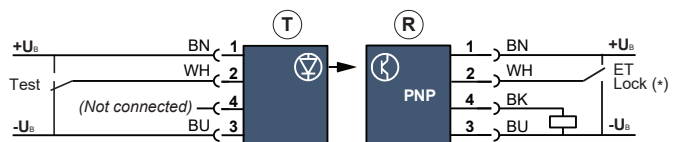
(1): If Double flash = Contamination

Dimensions



Wiring diagrams

M12 Connector



BN	Brown
WH	White
BK	Black
BU	Blue

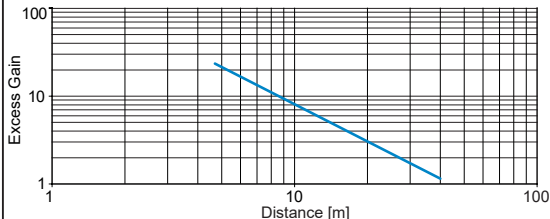


Wiring precautions

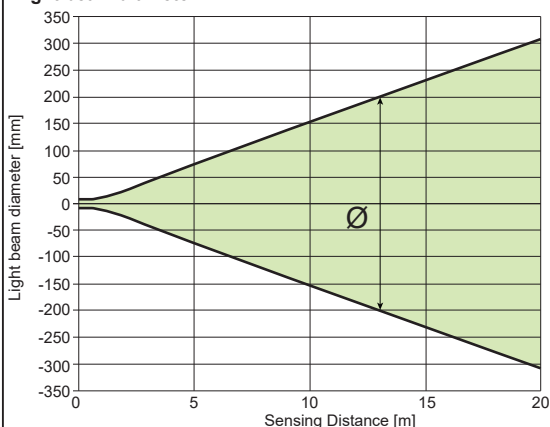
Use certified CYJV or R/C CYJV2 cable assemblies

Detection curves

Excess Gain



Light beam diameter



Characteristics

Certification	CE - UKCA - cULus - Ecolab
Maximum sensing distance	25 m / 82.02 ft
Scanning range	0...20 m / 0...65.62 ft
Sensing distance setting	Teach button or control input ET / Lock
Color of detection light beam	Red, 640 nm
Spot size of the light beam	see "Light beam diameter" curve
Output type	PNP (N.O. or N.C.)
Current consumption	≤ 30 mA
Switching capacity	≤ 100 mA
Switching frequency	500 Hz
First-up delay	300 ms max.
Response time	0,9 ms max.
Recovery time	0,9 ms max.
Ambient Temperature	Operating : - 20...+60 °C (-4...+140 °F) Storage : - 20...+80 °C (-4...+176 °F)
Power Voltage	Rated operational voltage: 12...24 Vdc Ripple p-p 10% maximum Operating range: 10...30 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.

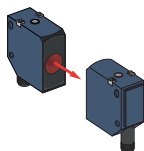
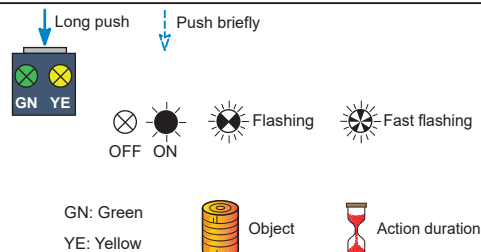
Failure to follow these instructions can result in death, serious injury or equipment damage.

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

By button or control input.
Factory setting = max. scanning distance

**Legend:**

	A Initial setting with XUK2AKEM12T 1 Check operation conditions. When scanning area is empty, push button briefly on XUK2AKEM12T. Green LED flashes. After approx. 3 s both LEDs flash synchronously for about 15 s. → Teach process is ready.
	2 Push button again. Align XUK2AKEM12T to XUK2APSM12R. Observe alignment indication (red LED in front screen of XUK2APSM12R). If flashing, light reception is at the limit. If constantly on, light reception is OK. When OK, push button 2x.
	B Adaption to application XUK2APSM12R With free light path, push button on XUK2APSM12R (approx. 3 s) until both LEDs flash synchronously. Release button (LEDs flash asynchronously).
	When object is not moving (static): Place object in sensing range. Push button briefly (1 s). Release button.
	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. If the object is detected, the yellow status LED is on (N.O. setting) or is off (N.C. setting).
	C Setting of N.O. / N.C 1 Without object, press the receiver learning button for (about) 13 s. The green LED flashes rapidly. 2 As long as the green LED is flashing, press the learning button for 1 s to invert the output. 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. D Setting with input (ET - External Teach / Lock) on XUK2APSM12R +U_B = Teach-in (as button) - U_B = Button locked not connected = Normal operation (free run).

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