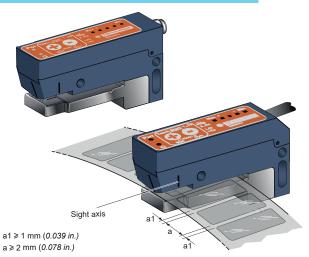
Ultrasonic fork for label detection





M12 cable connector

XUVU04M3BL02M12 XUVU04M3PL02M12 XUVU04M3NI 02M12



Cable 2 m/6.56 ft

XUVU04M3BL2 XUVU04M3PL2 XUVU04M3NL2



M8 direct connector

XUVU04M3BM8 XUVU04M3PM8 XUVU04M3NM8





http://qr.tesensors.com/XU0020

Scan the code to access this Instruction Sheet and all product information in different languages or you can visit our website at:

www.telemecaniquesensors.com

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



DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- · Disconnect all power before servicing equipment.
- Do not connect this device to AC power.
- The power voltage must not exceed the rated range.

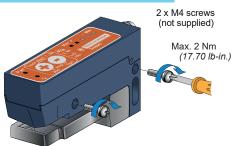
Failure to follow these instructions will result in death or serious injury.

WARNING

- IMPROPER SETUP OR INSTALLATION This equipment must be installed and serviced by qualified personnel only.
- Read, understand, and follow the instructions below before installing the device.
- Do not tamper with or make alterations to the device.
- Comply with the wiring and mounting instructions.
- · Check the connections and fastening during maintenance operations.
- The proper functioning of the device and its operating line must be checked regularly and according to the application (for example number of operations, level of environmental pollution, etc.).

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







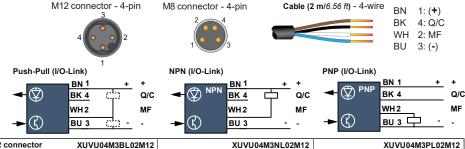
Bar graph values	Quality of Run/ Quality of Teach	
	\odot	
	<u>:</u>	
	(i)	

- (1) Q LED (yellow): Status switching output Q
- (2) Power LED (green)
- 3 Teach-in buttons
- 4) 5-segment LED bar graph (green): QoT/QoR indication

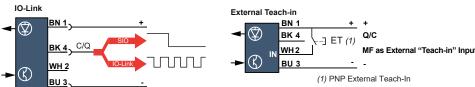
Q LED flashes	Description
1 Hz	Static Teach-in
3 Hz	Static or Dynamic Teach-in
6 Hz	Dynamic Teach-in failed
2 x 1 Hz	Pushbutton lock activated
3 x 1 Hz	Pushbutton lock activated
4 x 1 Hz	Output signal: NO/NC switch
10 x 6 Hz	Unsuccessful 1-point Teach-in

Mounting, wiring and maintenance precautions

Wiring diagrams



M12 connector	XUVU04M3BL02M12	XUVU04M3NL02M12	XUVU04M3PL02M12
Cable (2 m/6.56 ft)	XUVU04M3BL2	XUVU04M3NL2	XUVU04M3PL2
M8 connector	XUVU04M3BM8	XUVU04M3NM8	XUVU04M3PM8



MF as External "Teach-in" Input

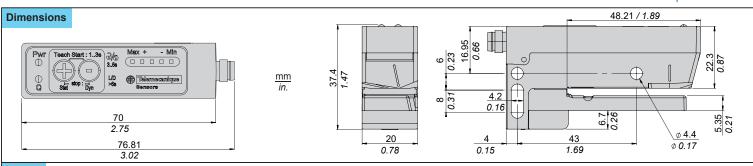
CAUTION

INOPERABLE EQUIPMENT DUE TO CYBER ATTACK ON IO-LINK

- Apply external cybersecurity protection on IO-Link Master device.
 Download IO-Link description files from these web servers only:
- https://tesensors.com/global/en/support/iolink or https://ioddfinder.io-link.com/#/
- Failure to follow these instructions can result in injury or equipment damage.

≥100 mm/ ≥3.93 in NOTICE REDUCTION OF SERVICE LIFE Do not pull on the sensor cable. Failure to follow these instructions can result in equipment damage.

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	3.02	0.78	0.15	7.69
Setting	Action		Yellow Q LED	Bar graph
	Dynamic teach with moving labels: w	veb speed < 2.5 m/s		
Off	OR	1 s < 2 < 3 s	3 Hz	OFF
- 3 Hz Medium flash	2 Wait until at least one mark has passe	d the light spot	-	-
1 Hz Slow flash	<u>•</u>	Л	Constrast OK: Q LED: Realtime detection status	Constrast OK: Quality of Teach
	ORFT	External Teach	Contrast NOK: - 6 Hz Restart teach process	Contrast NOK: 6 Hz Restart teach process
	Static teach			
	1) Place the web or label		Q LED: Realtime detection status	Quality of Run
	*	1 s < 2 < 3 s	3 Hz	OFF
	3 Place the web or label (depending on v	what you placed in step 1)	-	-
	 +	Л	Constrast OK: 1 Hz then Q LED: Realtime detection status Contrast NOK: 10 x 6 Hz	Constrast OK: Quality of Teach Contrast NOK: ON
	Sensitivity adjustment		Contract Note: 10 X	Contract Note: Oil
	Step-by-step OR OR	חחחח (Q LED: Realtime detection status	Max + . Min
	Fast OR OR	2 s <	Q LED: Realtime detection status	Max
	Locking/Unlocking the keypad			
	Locking & + 0	3 s < 4 < 6 s	2 x 💓 1 Hz	Quality of Run
	Unlocking & +	3 s <	4 x 💓 1 Hz	Quality of Run
	Output signal: NO/NC switch			
	& +	6 s < 💆	3 x 💓 1 Hz	Quality of Run
ories		Charac	teristics	•

Accessor					
M12, 4-pin	400		#		
Cable length	PVC	PUR	PVC	PUR	
2 m / 6.56 ft	XZCPV1141L2	XZCP1141L2	XZCPV1241L2	XZCP1241L2	
5 m / 16.4 ft	XZCPV1141L5	XZCP1141L5	XZCPV1241L5	XZCP1241L5	
10 m / 32.8 ft	XZCPV1141L10	XZCP1141L10	XZCPV1241L10	XZCP1241L10	
M12-M12, 4-pin					
length	PVC	PUR	PVC	PUR	
1 m / 3.28 ft	XZCRV1511041C1	XZCR1511041C1	XZCRV1512041C1	XZCR1512041C1	
2 m / 6.56 ft	XZCRV1511041C2	XZCR1511041C2	XZCRV1512041C2	XZCR1512041C2	
5 m / 16.4 ft	XZCRV1511041C5		XZCRV1512041C5		
Manufacturer: TMSS France Tour Eqho - 2 avenue Gambetta 92400 Courbevoie France			SE TI 2 Nor Harro	epresentative: ESE UK Limited th Park Road gate, HG1 5PA d Kingdom	

	Characterist	ics					
٦	System Type of transmission			Thru-beam			
				Ultrasonic			
	Nominal sensing	Nominal sensing distance (Sn)		2.6 mm (0.10 in.)			
	Depth			43 mm (1.69 in.)			
	Remote			XUVU04M3B●	XUVU04M3P•	XUVU04M3N●	
	adjustment	function		Push-Pull	PNP	NPN	
	Product certification	ons		IEC 60947-5-2; CE; UKCA; cULus			
	Materials	Vaterials			Valox, Zamac		
Minimum length of label		2 mm (0.078 in.)					
]	Detection performance	Minimum distance between 2 labels		1 mm (0.039 in.)			
		Maximum flow rate		4 m/s (240 m/min) - 13.12 ft/s (787.4 ft/min)			
		Detection accuracy		For v = 2 m/s: +/-0.25 mm (6.56 ft/s: +/- 0.0098 in.)			
	Supply	Rated supply voltage		12-24 Vdc			
		Voltage limits		10-30 Vdc			
		Current consumption, no-load 45		<50 mA			
		Maximum rate	d current	100 mA			
		Maximum swit frequency	Maximum switching requency		1.1 kHz		
	Output	LEDs	Output state	Yellow			
4			Quality of Teach/ Quality of Run	5-segment LED bar graph (green)			
			Power	Green			
	Delay			440 µs			
	F	Operating temperature		+5+55 °C (+41+131 °F)			
	Environment	Storage temperature		-20+70 °C (-4+158 °F)			
		Degree of prot	Degree of protection		IP65		