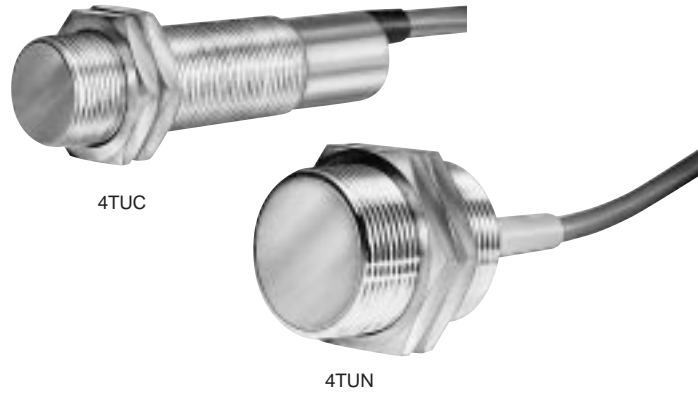


Flush mounting DC proximity switches which conform to DIN 19234



4TUC

The range of 4TUC proximity switches have an integral amplifier and are designed for operation on 10-30VDC. The amplifier can be provided with NPN or PNP output for connection to resistive and inductive loads. Output modes normally open or normally closed can be provided. The units will provide a maximum load current of 200mA (inductive).

- Available in three different sensitivity ranges.
- Integral amplifier (4TUC).
- Cylindrical threaded body supplied with two nuts.
- Environmental protection to IP67 as standard.
- 2m long flying leads.
- Operate between -20°C and +70°C.

4TUN

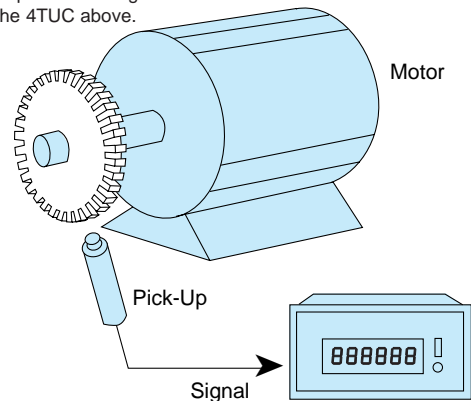
The 4TUN proximity switches (without amplifier) are suitable for flush mounting and are designed for operation on 6.2-12 VDC. They are classified as two-wire units and conform to the NAMUR recommendations and DIN 19234.

When the presence of metal is detected the output current is less than 1mA; in the absence of metal the output current is greater than 3mA. Suitable for connection to OR and AND logic circuits or external amplifier.

The protection and temperature ranges of the 4TUN are the same as the 4TUC above.

Typical Applications

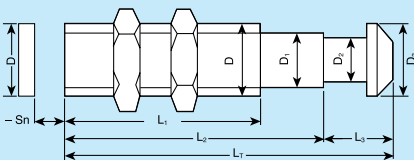
- *Camshaft gear detection
- *Detection of valve position
- *Transport control
- *Monitoring of gearwheel motion



Dimensions

Model No.	Diameter (D) mm	D ₁ mm	L ₁ mm	L ₃ mm	L _T mm	Nut D ₂ mm	Nut D ₃ mm
4TUN 12	M12 x 1	10.5	35	20	55	7	9.5
4TUN 18	M18 x 1	16.5	35	20	55	11	13.5
4TUN 30	M30 x 1.5	27.5	40	20	60	11	13.5

Model No.	Diameter (D) mm	D ₁ mm	L ₁ mm	L ₂ mm	L _T mm	Nut D ₂ mm	Nut D ₃ mm
4TUC 12/0	M12 x 1	10.5	40	60	80	7	9.5
4TUC 12/1	M12 x 1	10.5	40	60	80	7	9.5
4TUC 18/0	M18 x 1	16.5	50	70	90	11	13.5
4TUC 18/1	M18 x 1	16.5	50	70	90	11	13.5
4TUC 30/0	M30 x 1	27.5	50	70	90	11	13.5
4TUC 30/1	M30 x 1	27.5	50	70	90	11	13.5



Specification

The following is an abbreviated specification; a more comprehensive specification is available in the Trumeter Sensors catalogue.

Sensitivity Ranges (4TUN and 4TUC)

2 - 10mm

Repeatability (4TUN and 4TUC)

0.1 - 0.4mm

Frequency (4TUN and 4TUC)

1kHz - 300Hz

Dimensions of Largest Model

M30 x 90mm overall length

Ordering Information

Order by type number from the following tables:

4TUC Proximity switch with amplifier

NPN O/P	PNP O/P	Sr mm	Rpt mm	Freq Hz	O/P
4TUC 12/0	4TUC 12/0/P	2	0.01	1K	NO
4TUC 12/1	4TUC 12/1/P	2	0.01	1K	NC
4TUC 18/0	4TUC 18/0/P	5	0.02	1K	NO
4TUC 18/1	4TUC 18/1/P	5	0.02	1K	NC
4TUC 30/0	4TUC 30/0/P	10	0.04	300	NO
4TUC 30/1	4TUC 30/1/P	10	0.04	300	NC

4TUN Proximity switch without amplifier

Model	Sr mm	Rpt mm	Freq Hz
4TUN 12	2	0.01	1K
4TUN 18	3	0.02	600
4TUN 30	10	0.04	300

Please telephone or fax for the TRUMETER Sensors catalogue for complete range of sensors available