

FTU ULTRASONIC DISTANCE SENSOR



*Wear free ultrasonic technology
CANbus for effective system integration
Embedded diagnostic*



FTU ultrasonic sensor family allows to effectively manage distance measurement, reaching high levels of resolution and linearity. Robust design makes this device an optimal solution on multiple off-highway applications. Smart logic, together with CANbus communication, allows extremely flexible solutions with and without external ECU active management.



KEY VALUES



Shock proof



Ultrasonic technology



CANbus



IP 67
protection class



Wide temperature
range

Description	P/N
FTU1	1110977
FTU2	1110978



FTU-1

Common Default Parameters:

ID node: 0x1F

Baud rate: 125kbps



FTU-2

APPLICATIONS



Material Handling
and Lifting Technology



Agricultural Machinery



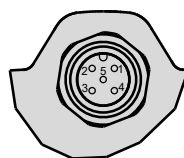
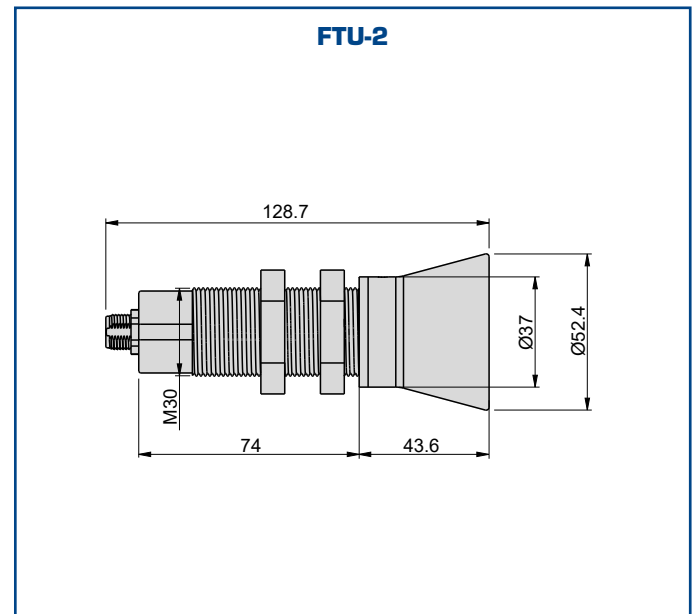
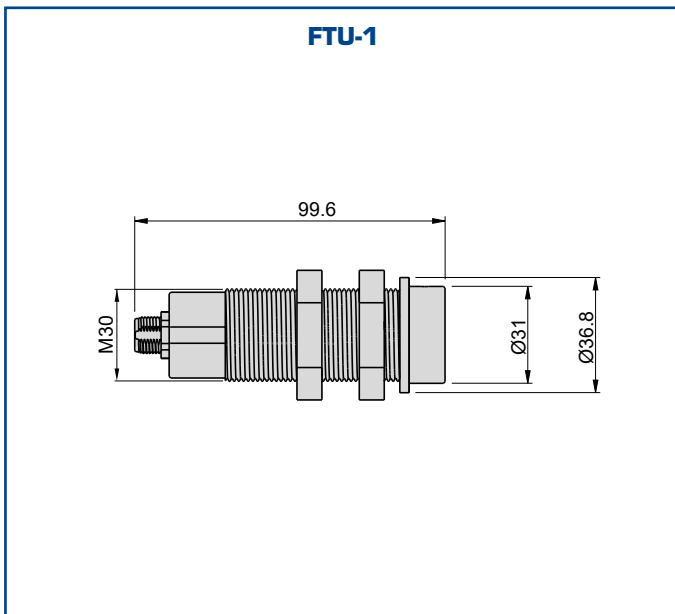
Construction Equipment

TECHNICAL DATA

Measurement Range	up to 7,5m
Supply voltage	+9-36Vdc.
Output signal	+analogue (0-5V or 4-20mA on M12-pin available)
Accuracy	up to 10mm
Working temperature	-40°C ... +85°C
Vibrations	20g between 10 Hz ... 2000 Hz IEC 60068-2-6
Shock	Pulse on 3 axes; 50g 11 ms IEC 60068-2-27
Electromagnetic compatibility	2014/30/EU Electromagnetic Compatibility (EMC)
Protections and immunity	Protected against reverse polarity and short circuit

All performance data are values resulting from qualification tests on specific configuration sample production batch.
Final product configuration, actual application and respect of installation recommendation may impact on some performance data.
Where not differently indicated, data refer to Tamb condition test environment.

DIMENSIONS



CONNECTOR

N PIN	CANbus
1	4-20mA
2	+VIN
3	GND
4	CAN-H
5	CAN-L

ORDERING KEY

FAMILY	SUBFAMILY	CASE MATERIAL	CONNECTOR	CHANNEL 1 RANGE (±)	CHANNEL 2 RANGE (±)	SUPPLY VOLTAGE	OUTPUT TYPE	SPECIAL FEATURE CUSTOM SOFTWARE	MANUAL ZERO HALL PEN	FACTORY LINEARITY TABLE	ACCESSORIES MAGNET TYPE	PROJECT REVISION
SONAR	1	S Stainless Steel	5M single M12 5P wall mounted	0050 5m full scale	0NOT Single channel	H 9-36Vdc	051 CANopen standard	000 Standard	0 not available (standard)	L supplied	000 not present	2
	2			0075 7,5m full scale			451 CANopen standard and 4-20mA					

EXAMPLE OF RESULTING ORDERING CODE

FTU1.S.5M.0050.0NOT.H.451.000.0.0.000.2

Further possibilities available, some options are mutually exclusive, please contact our team for more details.