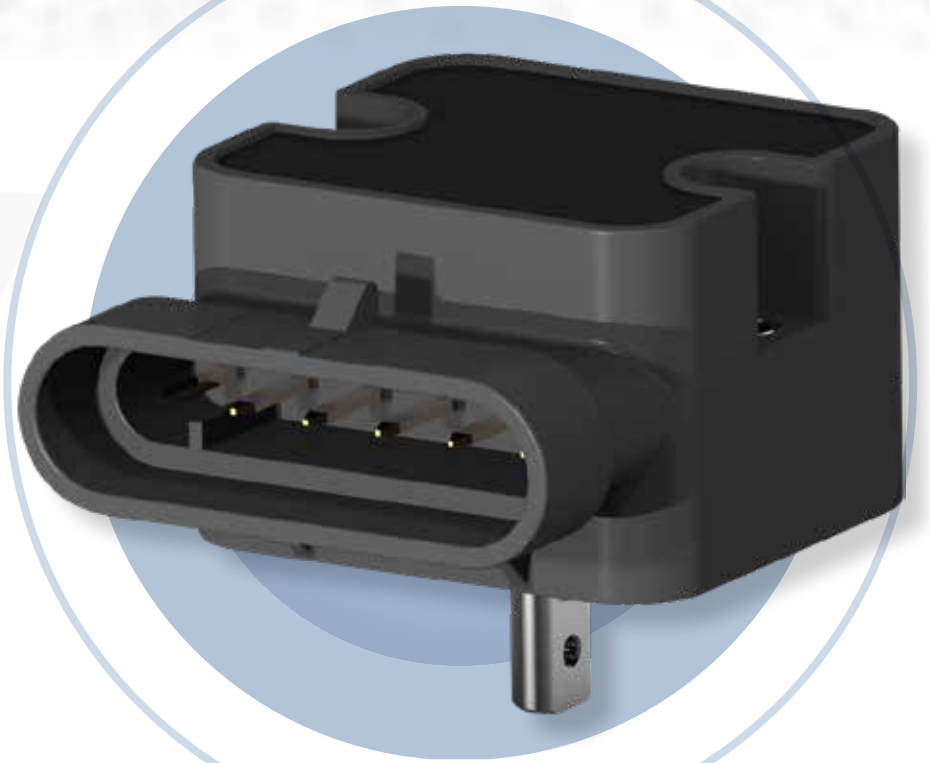
FTR3 ROTARY SENSOR WITH SHAFT SINGLE OR DUAL-REDUNDANT

Designed for harsh applications with effective design.
Implementing analogue or CAN bus digital outputs.
Suitable for functional safety applications.



FTR3 hall technology delivers accurate and reliable position measurement with integrated magnet and shaft minimizing risks related to wear over life and assembly tolerances. Multiple options available to fulfil market requirements.

KEY VALUES

- Shock proof
- 3D hall effect technology
- CAN open Digital Out
- Up to IP66 and IP68 protection class
- Wide temperature range
- Current/voltage Analogue Out

Description	P/N
FTR3 dual 0-5V	1108238
FTR3 dual CAN	1108236

Default Parameters:

360° full scale

0.5-4.5V or CANopen 406 profile

ID node No.1: 0x1F

ID node No.2: 0x1E (Redundant only)

Baud rate 125kbps (CANbus only)

APPLICATIONS

- Material Handling and Lifting Technology
- Agricultural Machinery
- Construction Equipment

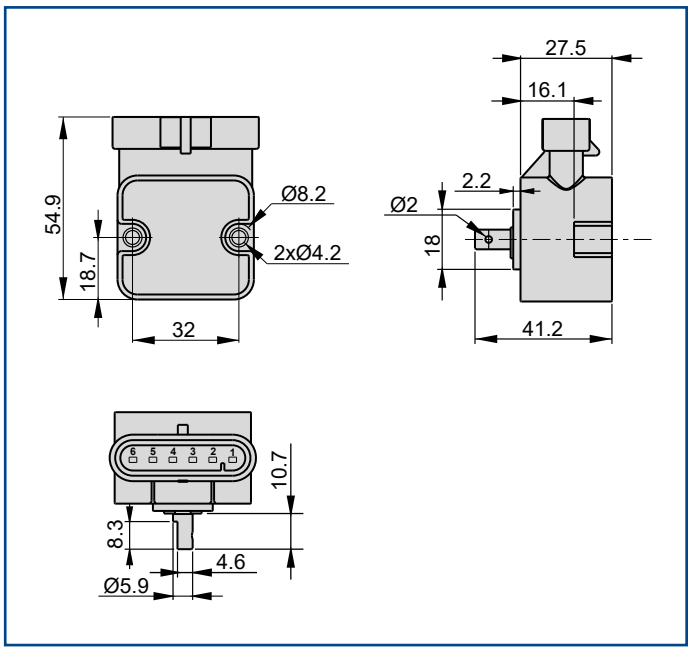
TECHNICAL DATA

Measurement Range	Settable, up to 360°
Supply voltage	+5Vdc; +9 ...+36Vdc
Output signal	CANbus, 0.5...4.5Vdc, 4...20 mA, 0...10Vdc*
Resolution	up to 14 bit
Independent linearity	±0.3% FS typ
Working temperature	-40°C ... +85°C
Thermal drift	<50ppm/°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
IP Protection Level	IP66, IP68
Housing body	Plastic

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.

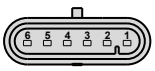
*With limitations. Contact our specialist team for more details.

DIMENSIONS



CONNECTOR

N PIN	CANbus	Analogue
1	GND	GND
2	+VIN	+VIN
3	NC	Out 1
4	NC	NC
5	CAN-L	NC
6	CAN-H	Out 2



ORDERING KEY

FAMILY	SUBFAMILY	CASE MATERIAL	CONNECTOR	CHANNEL 1 RANGE (±)	CHANNEL 2 RANGE (±) AND VERSE	SUPPLY VOLTAGE	OUTPUT TYPE	SPECIAL / CUSTOM FEATURE / SW / CUSTOMER	MANUAL ZERO HALL PEN	FACTORY LINEARITY TABLE SUPPLIED	ACCESSORIES / MAGNET TYPE	PROJECT REVISION
ROTATIVE	**3** Single turn with shaft "D" Shape	**B** Plastic with sleeves	**6A** AMP Seal 6 poles wall mounted	**W180** clock wise ±xxx°	**0NOT** single channel	**H** 12-24Vdc nominal	**001** analogue 0,5-4,5Vdc	**000** standard	**0** not available (standard)	**0** not supplied (standard)	**000** not present	**1**
				C180 counter clock wise ±xxx°	**S180** straight degrees	**L** 5Vdc	**002** analogue 0-10Vdc (24V nominal supply Only)				**003** FTR3 standard actuation lever	
					C180 crossed degrees		**051** CANopen standard					

EXAMPLE OF RESULTING ORDERING CODE

FTR3.B.6A.C180.0NOT.H.001.000.0.0.003.1

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

EXAMPLE OF APPLICATION