

Force Transducer with integrated CANopen® - Interface

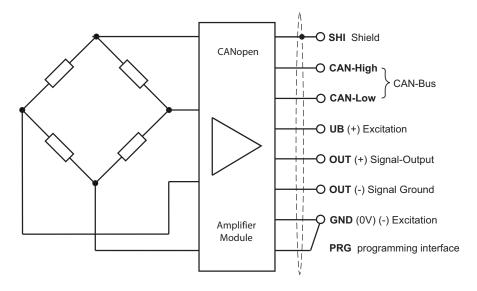
Applications

Many of our force transducers can be supplied with an integrated CANopen interface.

Please ask us for more information.



Principle Overview

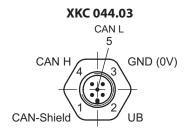


(0V and PRG to be connected by the customer)

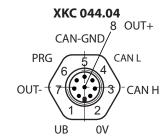
Connections

	DIN	4-wire	8-wire
UB	brown	brown	white
GND (0V)	yellow	yellow	brown
CAN-High	green	green	green
CAN-Low	white	white	yellow
PRG/Test	grey	-	pink
CAN-SHI	black	black	grey
OUT-	-	-	blue
OUT+	_	-	red

Flange plug M12x1on the sensor housing



Force sensor with CANopen 5-pole



Force sensor with CANopen and standard signal output (0/+4 ... +20mA or 0 ... +10V) 8-pole

Specifications

• • • • • • • • • • • • • • • • • • • •		
Profile		
Device profile		CiA 404: Sensors and controllers
Output digital CAN		
Transmission rate - adjustable Number of PDO - configurable Module address - adjustable Conversion rate Filter (averaging) Resolution	kBit/s Hz Values bit	125/ 250/ 500 4 1 127 8000 1 250 16
Accuracy class regarding strain-gauge sensor:	2mV/V input si	gnal = 100% v. E.
Reproducibility Temperature coefficient amplification Temperature coefficient zero point	% v. E. % v. E. / 10K % v. E. / 10K	0.2 0.1 0.1
Output standard signal analog		
Standard output signal Min. load at a voltage output Max. burden on current output Datarate DAC Max. Slew_rate	kΩ Ω 1/s V/ ms	0/+4 +20mA or 0 +10V 10 350 10000 7
Accuracy class standard signal analog regarding	ng strain-gauge	e sensor: 2mV/V input signal = 100% v. E.
linearity Temperature coefficient amplification Temperature coefficient zero point Noise current output, typical Noise voltage output, typical	% v. E. % v. E./ 10K % v. E./ 10K μΑ _{RMS} mV _{RMS}	0.2 0.15 0.15 12 5.5
Power supply		
Supply voltage Power consumption	VDC mW	18 24 28 <300
Environmental condition		
Working temperature range Storage temperature range Interference immunity Interference emission	°C	-40 +85 -40 +85 DIN EN 61000-6-2 DIN EN 55011-B

(view at plug front)

Order Example

Type Code	Description
KAM-DI/10kN/0.1/CANopen	Example type KAM for force transducers with integrated CANopen – CANopen-Output – Accuracy class – Rated load – DI = with integrated electronics with Digitaloutput – Model of the force tranducer