

# Force Transducer with integrated CANopen® - Interface

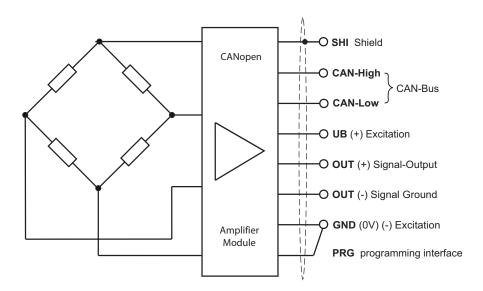
## **Applications**

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

Please ask us for more information.



# **Principle Overview**

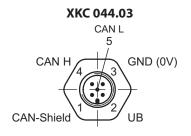


(0V and PRG to be connected by the customer)

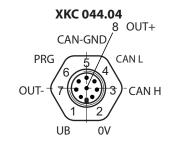
#### **Connections**

	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 signal = 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		
<b>Accuracy class</b> standard signal analog regarding strain-gauge 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 <sub>RMS</sub> mV <sub>RMS</sub>	0.2 0.15 0.15 12 5.5		
Power supply				
Supply voltage Power consumption	VDC mW	24 (5 36) <300		
<b>Environmental condition</b>				
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