

Force Transducer with integrated CANopen® - Interface

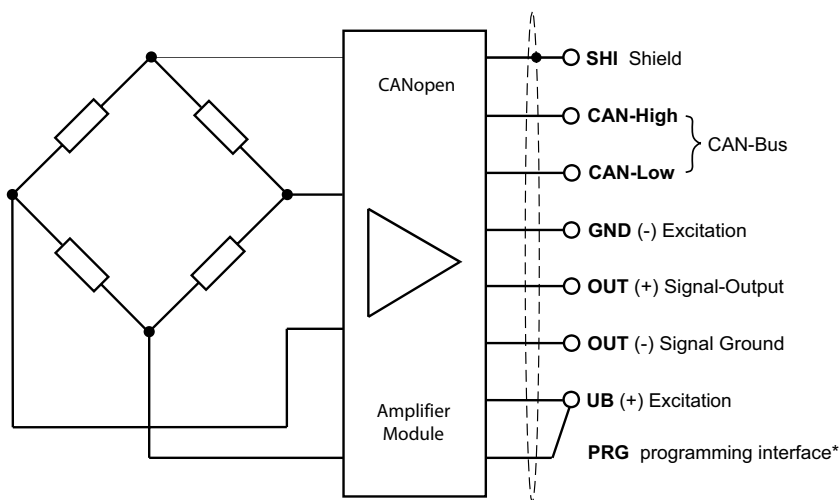
Applications

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

Please ask us for more information.



Principle Overview



(0V and PRG by the customer)

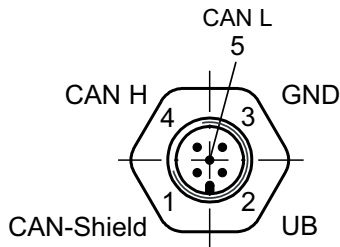
* not applicable for 3-wire connection

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

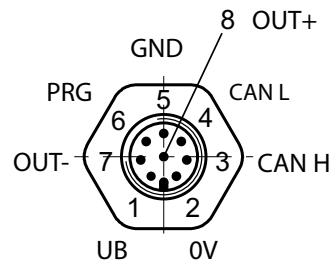
Force transducer with CANopen

Flange plug M12x1 on the sensor housing XKC 044.xx



Force sensor with CANopen
5-pole

(view at plug front)



Force sensor with CANopen and standard signal output
8-pole

Specifications

Profile		
Device profile		CiA 404: Sensors and controllers
Output digital CAN		
Transmission rate - adjustable	kBit/s	125/ 250/ 500
Number of PDO - configurable		4
Module address - adjustable		1 ... 127
Conversion rate	Hz	8000
Filter (averaging)	Values	1 ... 250
Resolution	bit	16
Accuracy class regarding strain-gauge sensor: 2mV/V input signal = 100% v. E.		
Reproducibility	% v. E.	0.2
Temperature coefficient amplification	% v. E. / 10K	0.1
Temperature coefficient zero point	% v. E. / 10K	0.1
Power supply		
Supply voltage	VDC	24 (5 ... 36)
Power consumption	mW	<300
Environmental condition		
Working temperature range	°C	-40 ... +85
Storage temperature range	°C	-40 ... +85
Interference immunity		DIN EN 61000-6-2
Interference emission		DIN EN 55011-B

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 transducer