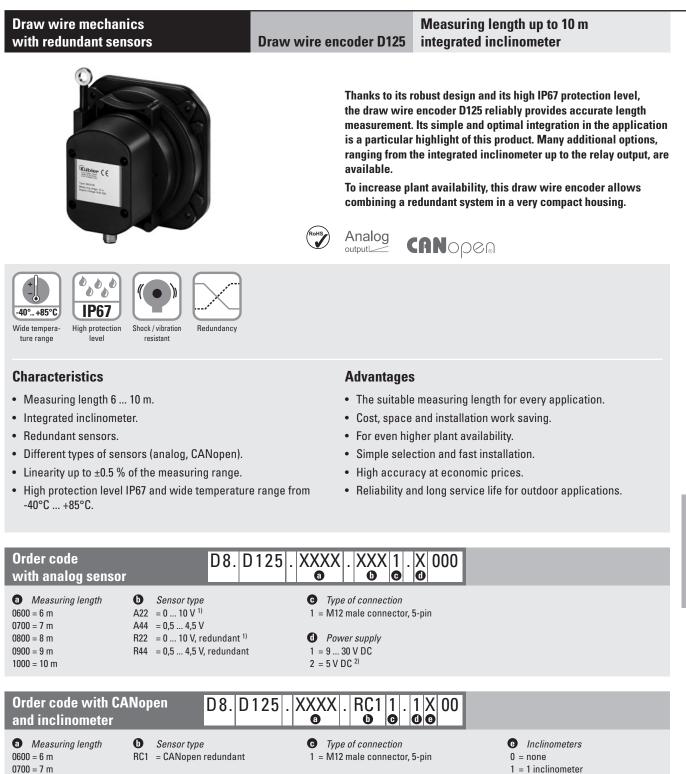
Linear measuring technology





d Power supply

1 = 9 ... 30 V DC

- 2 = 2 inclinometers
- = 2 inclinometers

1) Available from 09/2017.

0800 = 8 m

0900 = 9 m

1000 = 10 m

2) Only in conjunction with type of sensor A44 and R44.

1

Linear measuring technology

Linear measuring technology



Draw wire mechanics with redundant sensors	Draw wire encoder D125	Measuring length up to 1 integrated inclinometer	0 m
Connection technology for analog sensor			Order no.
Cordset, pre-assembled	M12 female connector with couplin 2 m [6.56'] PVC cable	M12 female connector with coupling nut, 5-pin 2 m [6.56'] PVC cable	
Connector, self-assembly (straight)	M12 female connector with couplin	g nut, 5-pin	8.0000.5116.0000

Technical data

Mechanical characteristics (draw wire mechanics)				
Measuring range	6.0 10.0 m			
Measuring wire material diameter	AISI304 steel wire Nylon coated ø 0.9 mm			
Wire fastening internal diameter outer diameter height				
Wire pull-out speed max.	max. 1 m/s			
Acceleration	max. 10 m/s ²			
Linearity (whole measuring range) analog CANopen	±0.8 % ±0.5 %			
Repetition accuracyanalog(whole measuring range)CANopen				
Pull-back force	typ. 4.5 N ¹⁾			
Pull-out force	typ. 9 N			
Type of connection	M12 connector, 5-pin			
Housing	polycarbonate reinforced with glass fibers			
Protection	IP67			
Temperature range	-40°C +85°C [-40°F +185°F]			
Weight	approx. 0.97 kg [34.2 oz]			
Shock resistance acc. to EN 60068-2-27	300 m/s ² , 11 ms			
Vibration resistance acc. to EN 60068-2-6	100 m/s ² , 10 500 Hz			

Analog sensor	
Output signal	analog
Resolution	12 bit

CANopen	
Output signal	CANopen (DS301)
Resolution	14 bit
Resolution inclinometer	0.1°
Accuracy inclinometer	±0.6°
Temperature drift inclinometer	±0,01 %/°C

Electrical characteristics	
Power supply	9 30 V DC 5 V DC ±10 % ²⁾
Electromagnetic compatibility	acc. to EN 61326-1, EN 61326-3-1
CE compliant acc. to	EMC guideline 2014/30/EU RoHS guideline 2011/65/EU

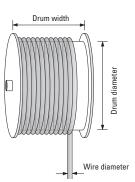
Operating principle

Construction

The core of a draw wire device is a drum mounted on bearings, onto which a wire is wound. Winding takes place via a spring-loaded device.

Note

Exceeding the maximum extension length of the draw wire will lead to damage to the wire and the mechanics.



May be lower at low temperatures.
Only in conjunction with type of sensor A44 and R44.

Linear measuring technology



Draw wire mechanics with redundant sensors

Draw wire encoder D125

Measuring length up to 10 m integrated inclinometer

Terminal assignment

Sensor type	Type of connection	M12 connector, 5-pin					
A22, A44, R22, R44 (analog sensor)	1	Signal:	+V	n.c.	0 V	Uout 1	Uout 2
		Pin:	1	2	3	4	5
Sensor type	Type of connection	M12 connector, 5-pin					
RC1 (CANopen)	1	Signal:	0 V	+V	CAN-GND	CAN-H	CAN-L
		Pin:	3	2	1	4	5
+V : Powe	er supply +V DC				Top view of m	ating side, ma	le contact ba

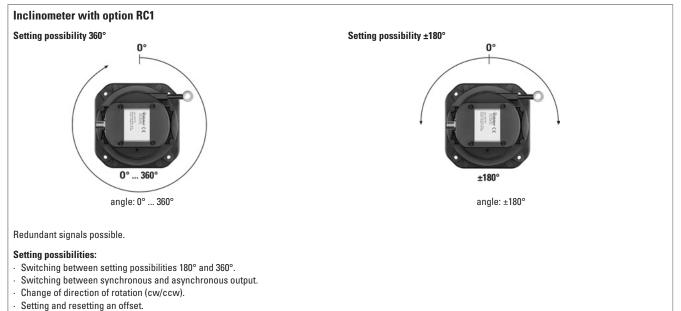
Power supply +V D(0 V : Power supply GND (0V) Uout 1 : Voltage output 1 Voltage output 2 Uout 2 :

view of mating side, male contact base



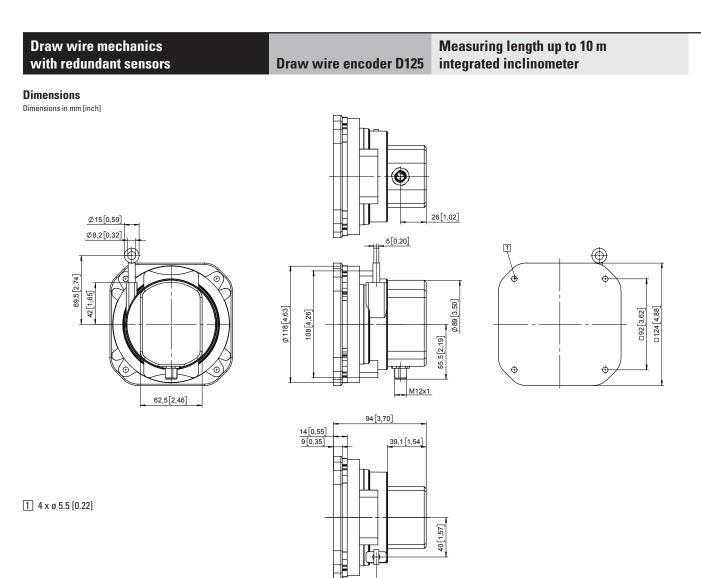
M12 connector, 5-pin





Linear measuring technology





43,5[1,71]