

# CET.10000

## CABLE EXTENSION TRANSDUCER

Measuring length absolute up to 10 m



DATASHEET - Rev.3 - 13062019



### CHARACTERISTICS

- Measuring length from up to 10 m
- Single or Redundant output
- Compact dimensions
- Linearity up to  $\pm 1\%$  (FS) of the measuring range.
- High protection level IP67 and wide temperature range from  $-40^{\circ}\text{C}$  ...  $+85^{\circ}\text{C}$



### ADVANTAGES

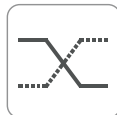
- The suitable measuring length for every application
- Simple selection and fast installation
- High accuracy at economic prices
- Reliability and long service life for outdoor applications
- For even higher plant availability
- Cost, space and installation work saving



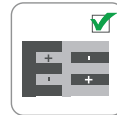
**IP67**  
High protection level



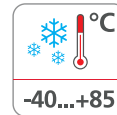
Shock/vibration resistant



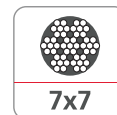
Redundancy output



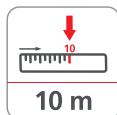
Reverse polarity protection



**-40...+85**  
Wide range temperature



**7x7**  
7x7 stainless steel rope



**10 m**  
Max. length: 10 m



Ultra durable



Analog output



Directive 2011/65/EU



EU conformity

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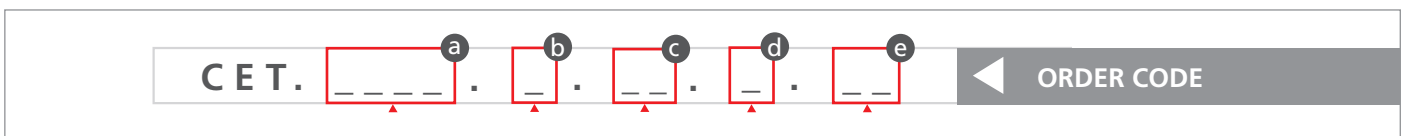
### PRODUCT DESCRIPTION

Model CET10000 is a rugged and high-performance wire cable pull transducer with Analog output designed for industrial applications and are therefore particularly high-quality and durable.

Excellent repeatability, high IP rating, resistance to shock and vibrations, and high electromagnetic compatibility make this transducer suitable for mobile hydraulics applications such as agricultural vehicles, earth-moving machines, and hoisting equipment.



### PRODUCT CODE



a	Measuring length
6000	← = 6 m
7000	← = 7 m
8000	← = 8 m
9000	← = 9 m
10000	← = 10 m

b	Power supply
1	← = 5 V DC (only for outputs 2; 3; 20; 31)
2	← = 9 ... 30 V DC (STD)
3	← = 12 ... 30 V DC (only for outputs 4; 7; 22; 35)

c	Sensor Output
2	← = 0,5 ... 4,5 V DC
3	← = 0 ... 5 V DC
4	← = 0 ... 10 V DC
7	← = 4 ... 20 mA
20	← = 0,5 ... 4,5 V DC Redundant
31	← = 0 ... 5 V DC Redundant
22	← = 0 ... 10 V DC Redundant
35	← = 4 ... 20 mA Redundant

d	Type of connection*
1	← = Male flange connector M12, 5-pin

e	Inclinometers
X	← = none

\* On request is available electrical connection with cable gland

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### TECHNICAL SPECIFICATION

Measuring range	6...10m
Measuring wire	AISI304 steel wire Nylon coated $\varnothing$ 0.9 mm
Wire fastening	Eyelet Internal diameter $\varnothing$ 8 mm Outer diameter $\varnothing$ 15 mm Height 5 mm
Wire pull-out speed max	max. 1m/s
Acceleration	max. 10m/s <sup>2</sup>
Cable transducer resolution	15 bit
Cable transducer Linearity	$\pm 1$ % (FS)
Cable transducer Repeatability	$\pm 0.5$ % (FS)
Pull-back force	typ. 2 N
Pull-out force	typ. 8 N
Life cycles	500.000
Drum circumference	245 mm
Type of connection	Male flange connector M12, 5-pin
Housing	polycarbonate reinforced with glass fibers
Protection	IP67
Temperature range	-40°C ... +85°C [-40°F ... +185°F]
Weight	approx. 0.9 kg [34.21 oz]
Shock resistance	acc. to CEI EN 60068-2-27
Vibration resistance	acc. to CEI EN 60068-2-6:2009

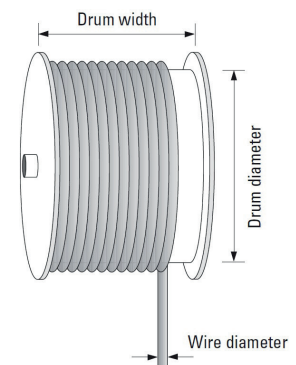
### OPERATING PRINCIPLE

#### 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

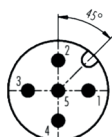
Exceeding the maximum extension length of the draw wire will lead to damage to the wire and the mechanics.



### ELECTRICAL CHARACTERISTICS

Power supply	9 ... 30 V DC (STD) see more detail on order code
Reverse polarity protection	YES
Electromagnetic compatibility	acc. to EN 61000-6-2, EN 61000-6-4
CE compliant	acc. to EMC guideline 2014/30/EU RoHS guideline 2011/65/EU

### ELECTRICAL CONNECTION M12 X 5 PINS

	
<b>Pinout</b>	
1	+Vin
2	n.c.
3	GND
4	V / I out 1
5	V / I out 2 (only for redundant version)

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### DIMENSIONS [mm]

