CET.10000

CABLE EXTENSION TRANSDUCER

Measuring length absolute up to 10 m

TSM
Top Sensors Manufacture

CHARACTERISTICS

- Measuring length from up to 10 m
- Single or Redundant output
- Compact dimensions
- Linearity up to ±1 % (FS) of the measuring range.
- High protection level IP67 and wide temperature range from -40°C ... +85°C

ADVANTAGES

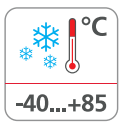
- The suitable measuring length for every application
- Simple selection and fast installation
- High accuracy at economic prices
- Reliability and long service life for outdoor applications
- For even higher plant availability
- Cost, space and installation work saving

High protection level

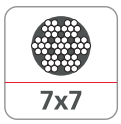

Shock/vibration resistant


Redundancy output

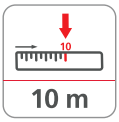

Reverse polarity protection



Wide range temperature



7x7 stainless steel rope



Max. lenght: 10 m

Ultra durable

Analog output

Directive 2011/65/EU

EU conformity

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CABLE EXTENSION TRANSDUCER

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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

CET. a . b . c . d . e ◀ ORDER 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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Measuring length absolute up to 10 m

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TECHNICAL SPECIFICATION

Measuring range	6…10m
Measuring wire	AISI304 steel wire Nylon coated ø 0.9 mm
Wire fastening	Eyelet Internal diameter ø 8 mm Outer diameter ø 15 mm Height 5 mm
Wire pull-out speed max	max. 1m/s
Acceleration	max. 10m/s2
Cable transducer resolution	15 bit
Cable transducer Linearity	±1 % (FS)
Cable transducer Repeatability	±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 EN 60068-2-27 30 G, 11 ms
Vibration resistance	acc. to EN 60068-2-6 10 ... 500 Hz

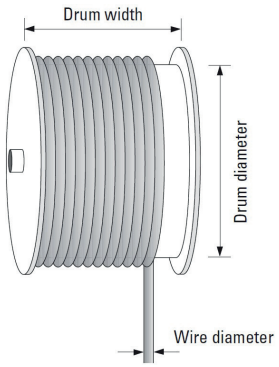
OPERATING PRINCIPLE

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

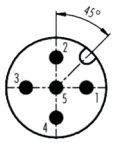
Exceeding the maximum extension length of the draw wire will lead to damage to the wire and the mechanics.



ELECTRICAL CHARACTERISTICS

Power supply	9 ... 30 V DC (STD) see more detail on order code
Reverse polarity protection	YES
Electromagnetic compatibility	acc. to EN 61326-1, EN 61326-3-1
CE compliant	acc. to EMC guideline 2014/30/EU RoHS guideline 2011/65/EU

ELECTRICAL CONNECTION M12 X 5 PINS



Pinout

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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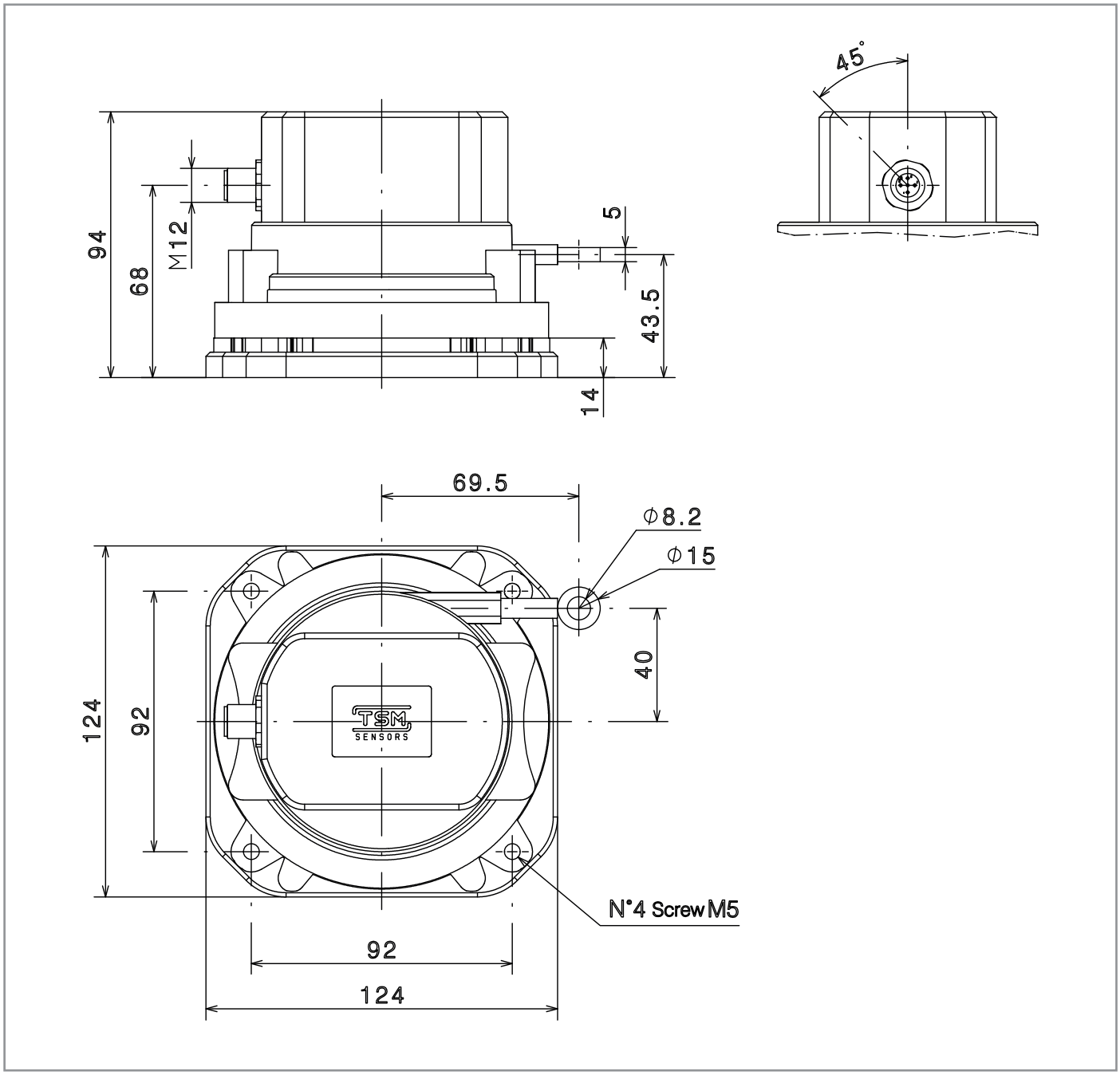
DIMENSIONS [mm]



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