# CD60 incremental output - Measurement range 0 up to 1500 mm

## **Specifications:**

Measurement range 0 up to 1500 mm Sensing device Incremental encoder

2G2 (5Vdc - Driver 5Vdc RS422) Supply and output stage

PG5 (5 to 30Vdc - Push-pull 5-30Vdc) RG2 (4.75 to 30Vdc - Driver 5Vdc RS422)

5GT (11 to 30Vdc - Transistorized push-pull 11-30Vdc)

Resolution 1 - 5 - 10 - 20 or 25 pulses per mm Material Body and cover - aluminium (RohS)

Measuring cable - Stainless steel

Cable diameter 0,60 mm

Connection Male connector M23 - 12 pin CW

Male connector M23 - 12 pin CCW

PUR cable - 12 wires PVC cable - 8 wires +/- 0,05% f.s.

+/- 0,01% f.s. (optional)

Protection class IP64 Max. Velocity 10 M/S

20 M/S<sup>2</sup> (before cable deformation) Max. Acceleration

≈ 1000 g Weight -20° to +85°C Operating temperature -40° to +85°C Storage temperature

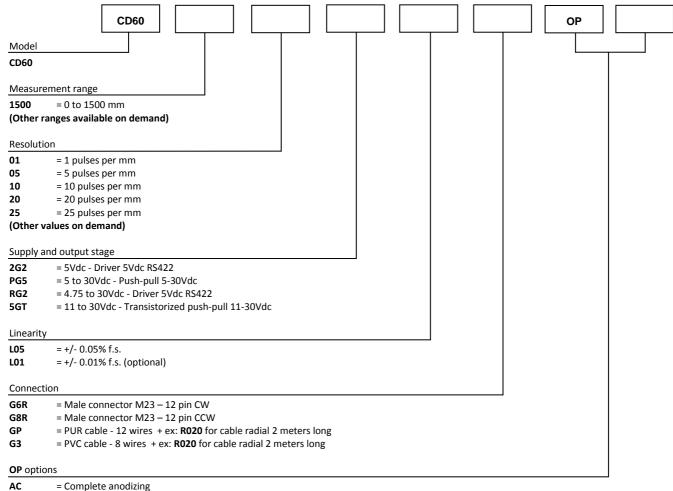


# **Cable forces:**

Measurement range in mm	Min. pull-out force	Max. pull-out force
1500	≈ 9,00 N	≈ 12,00 N

#### Ordering reference:

Standard linearity



BR

= Cleaning brush for the cable

CP = Fixing of the measuring cable with a clevis ΕM = Fixing of the measuring cable with a clip ΕN = Measuring cable coated with polyamide

M4 = Fixing of the measuring cable with a M4 threaded rod

TEV = Water evacuation holes

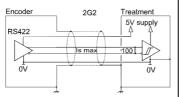
Reference example: CD60-1500-05-PG5-L05-G6R-OP-AC-EM



## Output stage and power supply

## Electronic 2G2 (100°C, 300kHz)

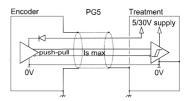
Supply:  $5Vdc \pm 10\%$ Cons. without load: 75mA max Current per channel: 40mA max 0 max (Is=20mA) : V<sub>ol</sub> = 0,5Vdc 1 min (Is=20mA) :  $V_{oh} = 4Vdc$ 



# Electronic PG5 (100°C, 300kHz)

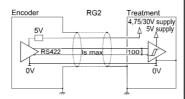
Supply: 5 to 30Vdc

Cons. without load : 75mA max Current per channel: 40mA max 0 max (Is=20mA) : V<sub>ol</sub> = 0,5Vdc 1 min (Is=20mA) :  $V_{oh} = Vcc-2,5Vdc$ 



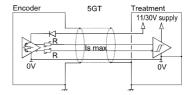
## Electronic RG2 (100°C, 300kHz)

Supply: 4,75 to 30Vdc Cons. without load: 75mA max Current per channel: 40mA max  $0 \text{ max (Is=20mA)} : V_{ol} = 0,5 Vdc$ 1 min (Is=20mA) :  $V_{oh} = 4Vdc$ 



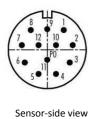
## Electronic 5GT (70°C, 120kHz)

Supply: 11 to 30Vdc Cons. without load: 75mA max Current per channel: 40mA max 0 max (Is=20mA) :  $V_{ol} = 1,5Vdc$ 1 min (Is=20mA) : V<sub>oh</sub> = Vcc-2,5Vdc



#### **Standard connection**

Male connector M23 12 Pin - CW	Male connector M23 12 Pin - CCW	PVC cable 8 wire	PUR cable 12 wire	Standard connection
1	10 + 11	White	White + White/Green	Supply -
2	2 + 12	Brown	Brown + Brown/Green	Supply +
3	8	Green	Grey	А
4	5	Yellow	Brown	В
5	3	Grey	Red	0
6	1	Pink	Pink	A/
7	6	Blue	Green	В/
8	4	Red	Black	0/





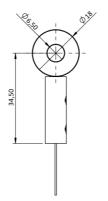


# Options:

## Cable attachment with a lug:

#### Standard

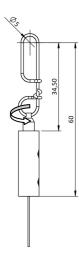
The attachment lug is fixed with a M6 screw or a clevis.



## Cable attachment with a clip:

# OP-EM

This fastening system allows a rotation about its axis.
The clip is fixed with a M4 screw or a clevis.



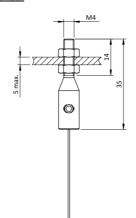
# Cable attachment fitted with a M4 threaded rod:

#### **OP-M4**

The rod attachment uses a threaded rod with 2 nuts (provided). The required thickness of the plate does not exceed 5 mm.

#### Caution

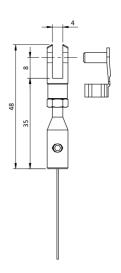
Never screw the threaded rod into a fixed nut, a twist of the measurement cable would damage it.



## Cable attachment with a clevis:

#### OP-CP

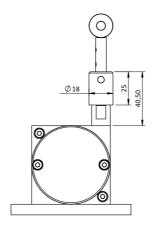
The attachment of the clevis is done using a pin (provided).



## Cable cleaning brush:

#### OP-BR

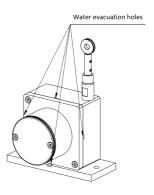
The cleaning brush wipes the cable in dusty or humid environments.

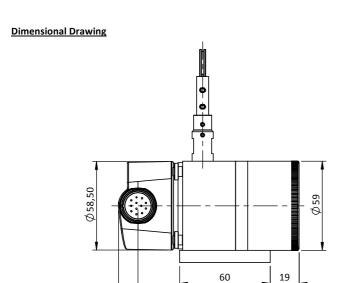


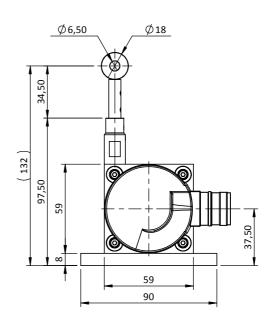
## Water evacuation holes:

## OP-TEV

The holes allow the natural flow of fluids out of the sensor in order to avoid their accumulation in the system.

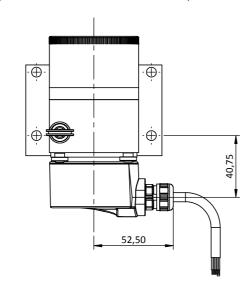






With DHM5 encoder GPR or G3R connection (PUR cable - 12 wires or PVC cable - 8 wires )

106,50 119,41



With DHM5 encoder G6R or G8R connection (Male connector M23 - 12 pin CW or CCW)

