

TR-NC/8V



FUNCTION

The TR-NC/8 transmitter measures the rotation speed of a shaft and it is able to interface directly in 2 wires technique (current loop 4 ÷ 20 mA) to an acquisition system (PLC or DCS).

GENERAL DESCRIPTION

The transmitter is normally composed of T-NC8/API proximity probe, extension cable and transmitter.

It is supplied complete with:

- No. 4 contacts: two for the 24 Vdc connection of the power supply and two for the check of the voltage gap for the probe positioning
- BNC socket for the connection to a portable analyser
- Coaxial connector for the sensor connection

The transmitter is also available as Atex certified for classified area applications

II 1 G Ex ia IIC T6 Ga

II 1 G Ex ia IIC T5 Ga

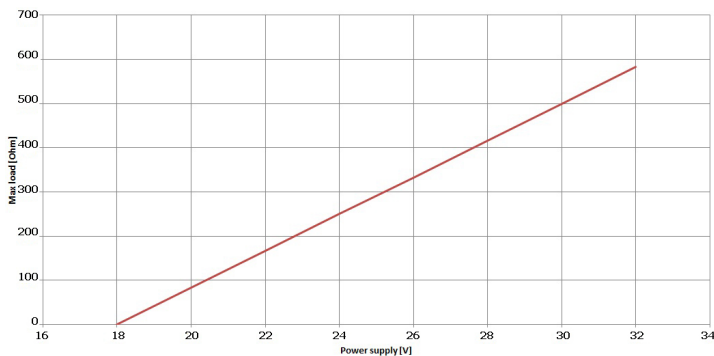
TECHNICAL CHARACTERISTICS

Composition	<ul style="list-style-type: none"> • T-NC/8-API sensor • Extension cable • TR-NC/8 transmitter
Power supply	<ul style="list-style-type: none"> • 24 Vdc (18 ÷ 32 Vdc) current loop 4 ÷ 20 mA (2 wires) • Maximum load see figure 1
External connection	<ul style="list-style-type: none"> • Bipolar shielded cable to the terminals POWER +/-
Environmental field	<ul style="list-style-type: none"> • Sensor -35°C ÷ +175°C • Extension cable -35°C ÷ +175°C • Transmitter -20°C ÷ +70°C
Measurement type	<ul style="list-style-type: none"> • Rotation speed
Dynamic field	<ul style="list-style-type: none"> • 100 ÷ 10000 RPM
Linearity	<ul style="list-style-type: none"> • ± 2% in the whole measuring field and within the limits of the indicated operating temperatures
Insulation	<ul style="list-style-type: none"> • ≥10⁸ Ω between signal and container
Possible arrangements to the order	<ul style="list-style-type: none"> • Cable length • Measuring range • Type of certification • Number of teeth of the polar wheel

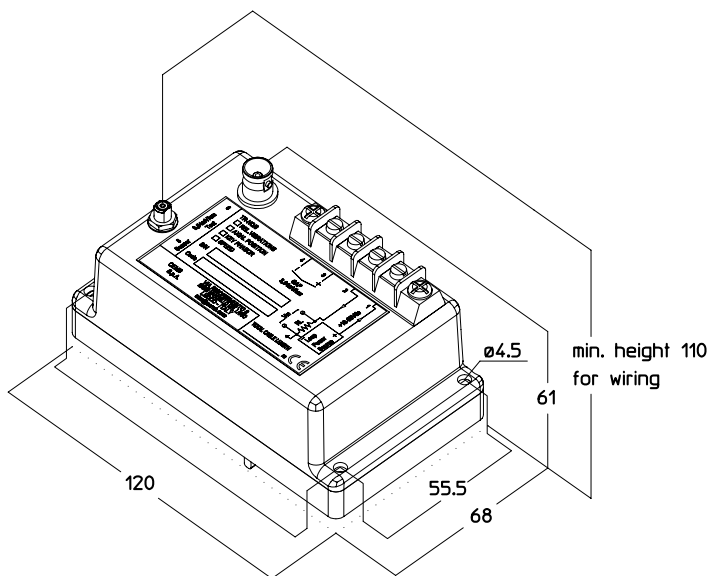


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Figure 1
Maximum load on current loop



Dimensions



ORDER INFORMATION

TR-NC/8V / / / /

A: CABLE TOTAL LENGTH

1	5 mt
2	7 mt
3	9 mt
S	special

B: MEASURING RANGE

01	100 RPM
02	500 RPM
03	1000 RPM
04	1500 RPM
05	2000 RPM
06	2500 RPM
07	3000 RPM
08	4000 RPM
09	6000 RPM
10	10000 RPM
SP	special

C: TYPE OF CERTIFICATION

1	Standard
2	Atex II 1G Ex ia IIC T5 o T6

D: NUMBER OF TEETH OF THE POLAR WHEEL

000	1 hole
001	1 tooth
XXX	number of teeth

PURCHASE ORDER EXAMPLE:

TR-NC/8V/1/07/2/060

- 1= Total length of the cable 5 mt.
- 07= Measuring range 3000 RPM
- 2= ATEX certification
- 060= Polar wheel with 60 teeth



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