ROTATION SPEED TRANSMITTER **KEY PHASOR**

TR-NC/8V

The TR-NC/8V 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).

The device is also able to work as Key Phasor if properly connected to the aquisition system (0÷10 V)

The measuring chain is composed by a proximity sensor, an extension cable and a transmitter. It is supplied complete with:

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







TECHNICAL CHARACTERISTICS			
Composition	 ST-NC/8 sensor Extension cable TR-NC/8 transmitter 		
Power supply	24 Vdc (18 ÷ 32 VdMaximum load see		es) current loop for rotation speed measurement only
External connection	■ Bipolar shielded ca	able to the terminals	POWER +/-
Environmental field	Sensor:Extension cable:Transmitter:	-55°C to 180°C -55°C to 180°C -40°C to 80°C	(ATEX: -55°C to 175°C) (ATEX: -55°C to 175°C) (ATEX: -20°C to 70°C)
Measurement type	Rotation speed (4-Key Phasor (0÷10)		0)
Dynamic field	■ 100 ÷ 10000 RPM	1	
Linearity	■ ± 2% (range 0,5 ÷	2,5mm; T=100°C)	
Insulation	■ ≥10 ⁸ Ω between s	ignal and container	
Possible arrangements to the order	Cable lengthMeasuring rangeType of certificationNumber of teeth o		











TR-NC/8V TRANSMITTER

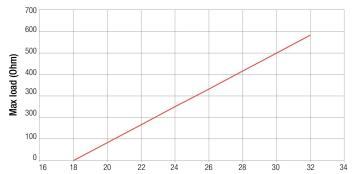
The transmitter is also available as ATEX certified for classified area application

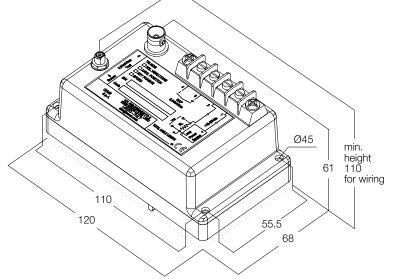
II 1G Ex ia IIC T6,T5 Ga (ATEX) Ex ia IIC T6,T5 Ga (IECEx)

Power supply:	24Vdc
Dynamic field:	100 ÷ 10000 RPM
Environmental field:	-20°C ÷ +70°C
DIN Rail:	Yes



Maximum load on current loop for rotation speed measure





CONVERTER

	Α	В	С	D	Е
TR-NC/8	/	/	/	/	/

A: MEASUREMENT TYPE

V	rotation speed and key phasor

B: CABLE TOTAL LENGHT

1	5 m
2	7 m
3	9 m
S	special

C: MEASURING RANGE FOR ROTATION SPEED

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	

D: CERTIFICATION

1	Standard
2	€ II 1G Ex ia IIC T6,T5 Ga (ATEX)
3	Ex ia IIC T6,T5 Ga (IECEx)

E: NUMBER OF TEETH OF THE POLAR WHEEL

000	1 hole	
001	1 tooth	
XXX	number of teeth	

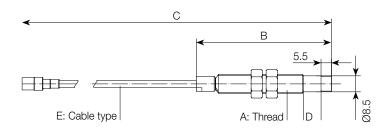
INTEGRATED CABLE TYPES

EXTENSION CABLE (optional)



Material:	Stainless steel
Thread:	M10 o 3/8" - UNF
Body:	40 mm ÷ 250 mm
Oil proof:	Yes
Stainless steel armour cable:	Optional





PROBE

A: THREAD TYPE

0	M10x1	
1	3/8"-24UNF	
S	special	

B: BODY LENGTH

pitch 10 mm - minimum 40 mm (4) - maximum 250 mm (25)

5 50 mm (standard)

C: TOTAL LENGTH (BODY + CABLE)

pitch 500 mm - minimum 500 mm (5) - maximum 9000 mm (90)

10 1000 mm (standard)

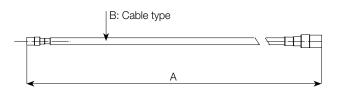
D: UNTHREADED PART LENGTH (ONLY FOR M10X1)

pitch 10 mm - Minimum 0 mm (0) - Maximum 120 mm (12)

0 0 mm (standard)

E: CABLE ARMATURE

0	not armoured
1	armoured



EXTENSION CABLE (optional)

CPT - NC / 8 / ____ / __ *

A: CABLE LENGTH

pitch 500 mm - minimum 1500 mm (15) - maximum 8500 mm (85)

40 4000 mm (standard)

B: CABLE ARMOUR

0	not armoured
1	armoured

* In the old coding, number zero "0" could be present before the code number.

Example:

ST-NC/8/0/05/010/00/0 (old code)

Equivalent to:

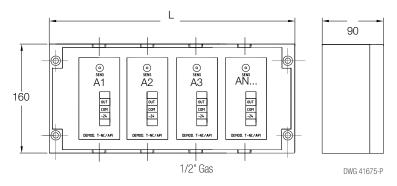
ST-NC/8/0/5/10/0/0 (new code)





JB-1

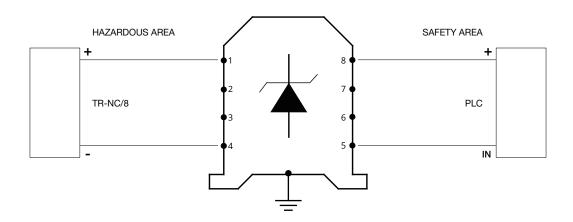
Alu junction box Junction Box IP65 container for TR-NC/8V transmitter.



JB-1 / 🗌

A:	NUMBER OF TRANSMITTER MODULES	
1	1 Module	L= 160mm
2	2 Modules	L= 260mm
4	4 Modules	L= 360mm
6	6 Modules	L= 560mm

ZENER BARRIER Z787 (FOR HAZARDOUS AREA)



PLASTIC TAG 040STR000 B5MAG10 CY002

STAINLESS STEEL TAG 980710835

B5MAG10 CYOO2

