GIVI MISURE
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Code	Project	Release	
ST02	***E11-A***	***A***	***TECHNICAL DATASHEET***

ABSOLUTE OPTICAL ENCODER AEN536 (Analog)

GENERAL FEATURES

- Absolute optical encoder (singleturn or multiturn).
- Output protocol: **Analog** (0 ÷ 20 mA, 4 ÷ 20 mA, 0 ÷ 10 V).
- Aluminium flange and housing.
- Radial or axial output with connector M23 12 Pin.

MECHANICAL AND ELECTRICAL CHARACTERISTICS

MECHANICAL

- Round flange, with centering Ø 36 mm.
- Aluminium housing.
- Stainless steel shaft.
- Ball bearings with special high-sealed screens.
- High protection even in harsh environmental conditions.

ELECTRICAL

- Output data: direction.

Cod. AEN536	
Resolution	10-12 Bit Singleturn up to 12 Bit Multiturn
Max. rotating speed	6000 rpm
Max. shaft load	40 N (axial) - 60 N (radial)
Shaft diameter (mm)	Ø 6 – Ø 10
Operating temperature	-10 °C ÷ 70 °C
Storage temperature	-10 °C ÷ 70 °C
Vibration resistance (EN 60068-2-6)	100 m/s^2 (10 ÷ 2000 Hz)
Shock resistance (EN 60068-2-27)	1000 m/s^2 (6 ms)
Protection class (EN 60529)	IP 64 standard IP 67 optional
Torque	≤ 2 Ncm
Moment of inertia	30 gcm^2
Power supply	10 ÷ 30 V
Current consumption	100 mA (ST), 150 mA (MT)
Interface / Output	Analog (0 ÷ 20 mA, 4 ÷ 20 mA, 0 ÷ 10 V)
Configurability	Direction / no. revolutions
Electrical connections	see related table
Weight	400 g (ST), 500 g (MT)

ORDERING CODE

MODEL	TYPE / OUTPUT	RESOL. Bit (MT)	RESOL. Bit (ST)	POWER SUPPLY	Ø SHAFT	CONNECTOR / CABLE	SIGNAL	CONNECTION	OPTIONS
AEN536	**S R**	**00**	**12**	**1030**	**D10**	**M02**	**A3**	**C**	**V2**
	S = singleturn **M** = multiturn **R** = radial **A** = axial	**00** = if ST **12** = 12 Bit*	**10** = 10 Bit **12** = 12 Bit	**1030** = 10÷30 V	**D06** = ø6 mm **D10** = ø10 mm	**CG** = M23 12 Pin **Mnn** = cable length in m **M02** = 2 m (standard)	**A1** = 0÷20 mA **A2** = 4÷20 mA **A3** = 0÷10 V	**C** = cable **n** = connection number	**No cod.**= standard **V2** = IP 67

* Multiturn resolution from 1 to 12 Bit

Example ☞ **ABSOLUTE OPTICAL ENCODER AEN536 SR 0012 1030 D10 M02 A3 C V2**

GIVI MISURE S.R.L. A SOCIO UNICO
C.F. e Iscrizione al Reg. Imprese di Monza e Brianza n° 04355540156 - Cap. Soc. € 51.480,00 I.V.

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ST02	***E11-A***	***A***	***TECHNICAL DATASHEET***

CABLE AND ELECTRICAL CONNECTIONS

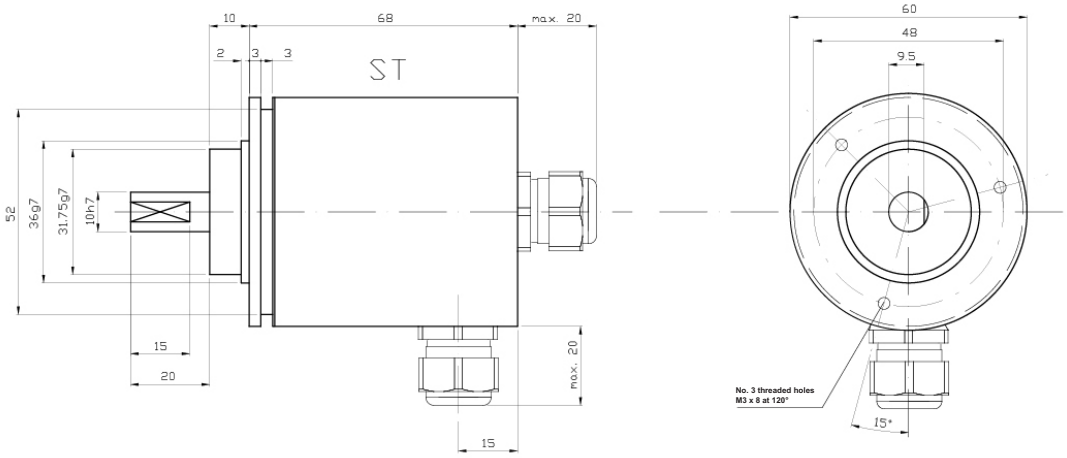
Encoder supplied with M23 12 Pin connector

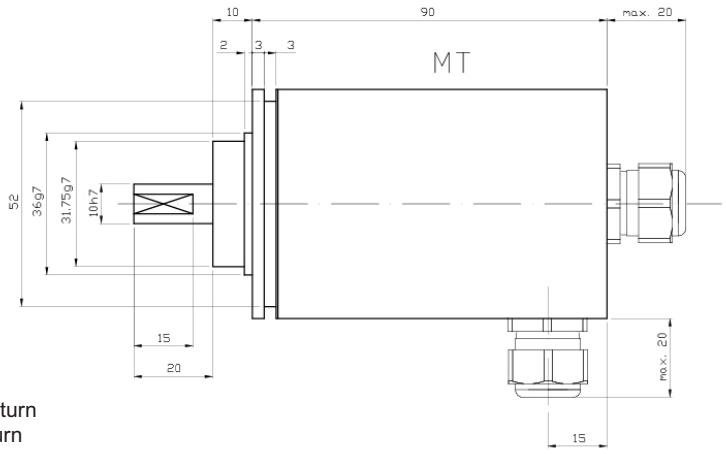
CONNECTION	
N. Pin	**Signals**
1	0 V
2	Vcc
3 (A1, A2)	I+
4 (A1, A2)	I-
5 (A3)	V+
6 (A3)	V-
7	DIR
Shield	Shield

Encoder supplied with cable

CONNECTION (A1, A2, A3)		
Color	**A1, A2**	**A3**
Yellow	0 V	0 V
White	Vcc	Vcc
Brown	I+	V+
Green	I-	V-
Grey	DIR	DIR
SCH	Shield	Shield

DIMENSIONS





ST = Singleturn
MT = Multiturn

WHAT TO AVOID

- Any mechanical working (cutting, drilling, milling, etc.).
- Any modification of the encoder body or shaft.
- Any improper use, not complying with the technical instructions provided by the Manufacturer.
- External shocks or stresses.