

# YANKEE

## Absolute encoder



Electronic sensor that interfaces with rotation elements and returns a signal according to the angular positions.

### FEATURES

- Used in a variety of industrial sectors, from hosting to automation, to meet any need in terms of registration and identification of modern production machines, wherever controls are needed, regardless of the nature of the mechanic system and of its complexity, and whenever reducing and unifying the system of angular positioning sensors is necessary.
- Designed for easy assembly and wiring together with standard sets of cams.
- Measuring accuracy guaranteed by 4096 points per revolution.
- IP protection degree: Yankee is classified IP20.
- Extreme temperature resistance: from -40°C to +80°C.
- Made with high quality materials and components to guarantee long mechanical life, precision and repeat accuracy even in extreme conditions.


### OPTIONS

- Suitable for installation on Fox, Oscar and Top rotary limit switches to control multi-revolutions rotors.
- Every position of the shaft is associated with an analogue signal in voltage, in current or PWM.

### CERTIFICATIONS

- CE marking, cULus marking.

## CERTIFICATIONS

Conformity to Community Directives	2014/30/UE Electromagnetic Compatibility (EMC) Directive
	2006/42/CE Machinery Directive
	2014/35/UE Low Voltage Directive (LVD)
Conformity to CE Standards	EN 61326-1 Electrical equipment for measurement, control and laboratory use - EMC requirements
	EN 60529 Degrees of protection provided by enclosures
Conformity to cULus Standards	CSA-C22.2 No 14-13 Industrial Control Equipment
	UL 508 Industrial Control Equipment
Markings and homologations	CE 

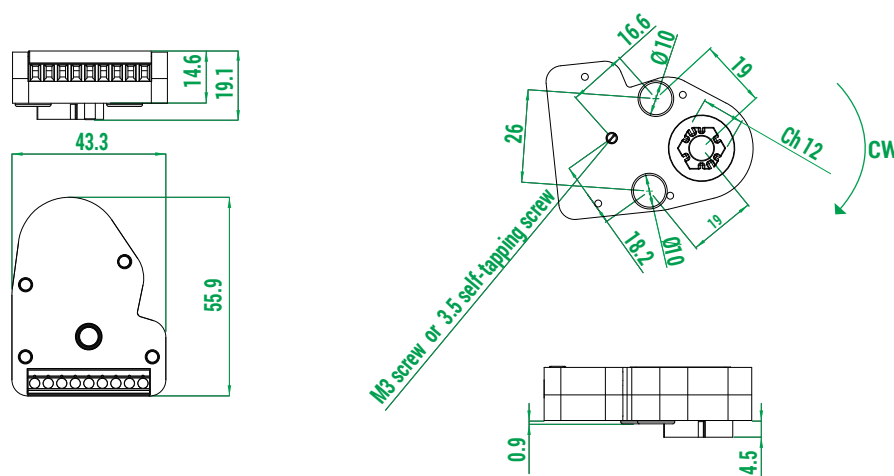
## GENERAL TECHNICAL SPECIFICATIONS

Ambient temperature	Storage -40°C/+80°C
	Operational -40°C/+80°C
IP protection degree	IP 20
Free rotation	360°
Maximum rotation speed	800 rpm

## ELECTRICAL SPECIFICATIONS

Code	PA01AA01	PA01AB01	PA01AC01
Analog output	Current 4 ÷ 20 mA	Voltage 0 ÷ 10 V	PWM 0 ÷ 100 %
Power supply	12 ÷ 48 Vdc/12 ÷ 48 Vac		
Protection against polarity inversion	Yes		
Absorption	50 mA		
Resolution	12 bit		
Linearity	+/- 0.5°		
Max. hysteresis	0.1°		
Zero Point setting	Through button/wire		
Signal increment direction	CW (standard)/CCW (on request)		
Connections	Terminal board		
Terminal wires	0.14 mm <sup>2</sup> - 1.5 mm <sup>2</sup>		
Terminal tightening torque	0.22 Nm - 0.25 Nm		

## OVERALL DIMENSIONS (mm)



## STANDARD ENCODERS

Description	Code
Yankee - current output	PA01AA01
Yankee - voltage output	PA01AB01
Yankee - PWM output	PA01AC01