

# ROTACOD

Absolute multi turn encoders

series

AM5



AM5

## ENVIRONMENTAL SPECIFICATIONS

Shock:	100 g, 6 ms (acc. to MIL STD 202F)
Vibrations:	10 g, 5-2000 Hz (acc. to MIL STD 202F)
Operating temperature range:	-20°C +70°C (-4°F +158°F)
Storage temperature range:	-20°C +80°C (-4°F +176°F) (98% R.H.without condensation)
Protection:	IP65
Option:	• Operating temperature range: -40°C +100°C (-40°F +212°F)

## MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Shaft:	Ø 6, 8, 10, 12 mm
Shaft loading (axial and radial):	40 N max.
Shaft rotational speed:	6000 rpm max.
Moment of inertia:	80 gcm <sup>2</sup>
Bearing life:	400x10 <sup>6</sup> rev. min. (10 <sup>6</sup> rev. min. with shaft loading of 20 N max.)
Weight:	~0,3 kg (10,6 oz)
Electrical connections:	cable 1 m (3.3 ft)
Options (see on page 62):	• Inline connector E32MLP, EDB 25P

## ELECTRICAL SPECIFICATIONS

STD codes:	Gray, Binary
Power supply:	+10V +30V
Power consumption:	1,5 W
Output circuits:	NPN o.c., PNP o.c., Push-Pull
Output current:	40 mA max.
Output frequency:	60 kHz max.
Accuracy:	± 40% LSB
Protection:	Protected against inversion of polarity, Push-Pull protected against short-circuit
Optoelectronic life:	100.000 h min.
Options:	• LATCH output • TRI-STATE output • Electronic parity bit

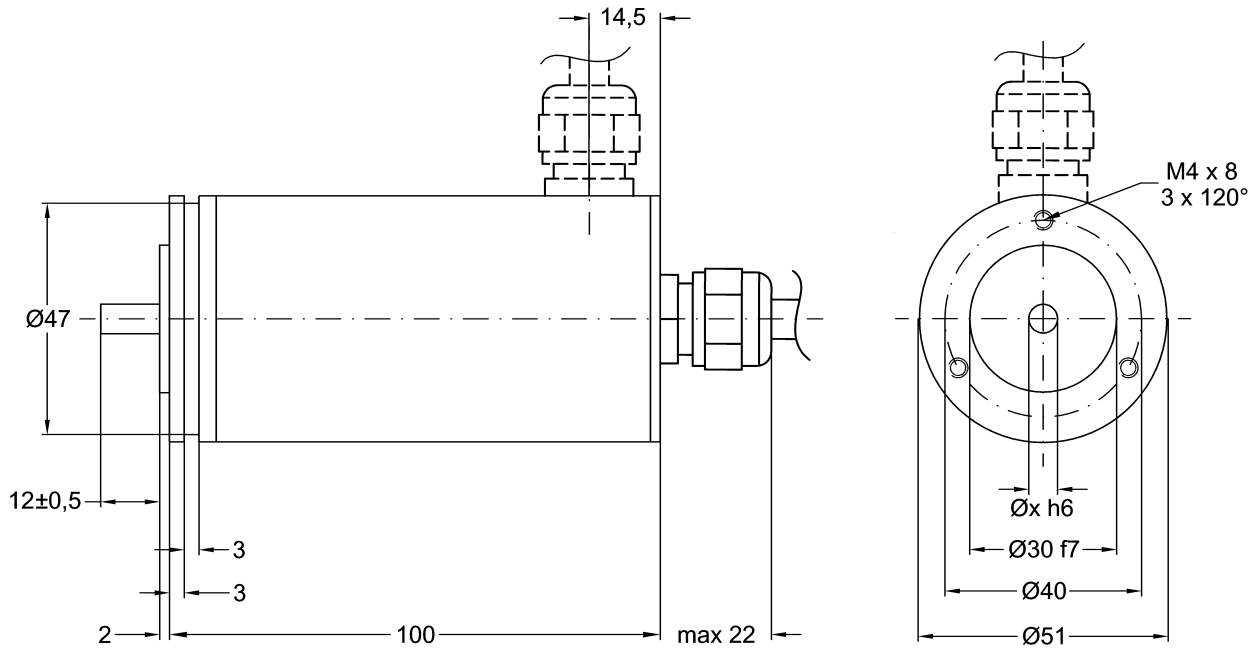
## MATERIALS

Housing:	non corroding
Flange:	non corroding
Bearings:	ABEC 5
Shaft:	stainless steel, non-magnetic
Light source:	GaAl diodes

## ACCESSORIES

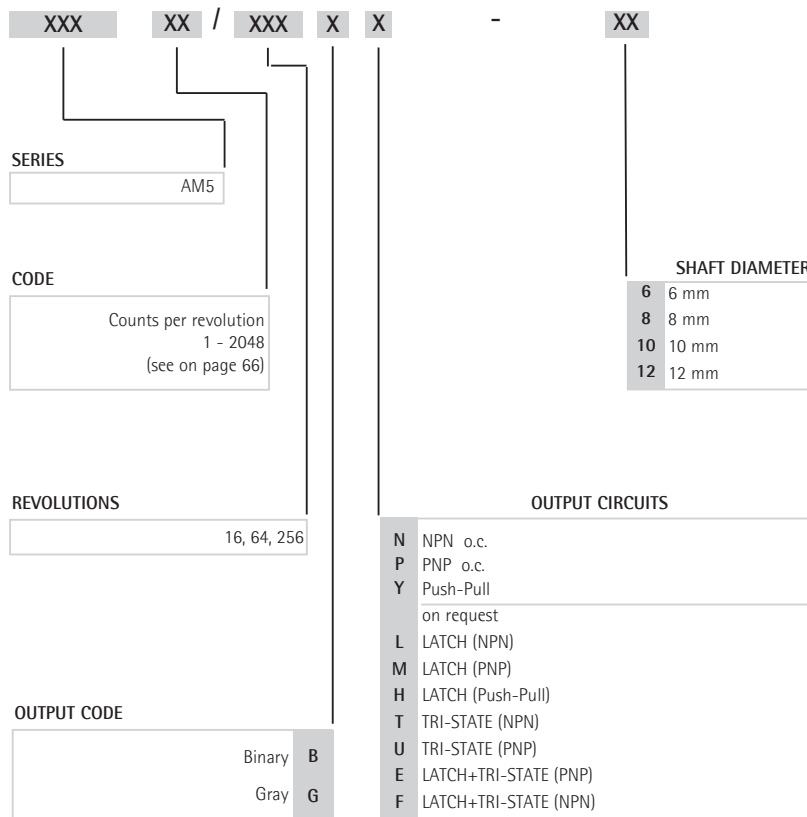
E32MLS:	32 pin MIL mating connector
EDB 25S:	25 pin DSub mating connector
PAN/PGF:	flexible couplings
LKM-386:	fixing clamps

Specifications subject to changes without prior notice



AM5

ORDERING CODE



ADDITIONAL CODE (indicate only if necessary)

