



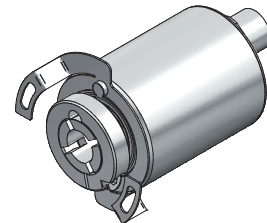
AAM 36 F CANOPEN

BLIND HOLLOW SHAFT MULTITURN ABSOLUTE ENCODER

MAIN FEATURES

Industry standard multiturn absolute encoder for factory automation applications.

- Magnetic sensor technology without contact (magnetic ASIC + Energy Harvesting)
- Sturdy construction thanks to separated chambers
- Power supply up to +32 VDC with CANopen interface
- Axial M12 connector output
- 10 mm blind hollow shaft
- Mounting by stator coupling



ORDERING CODE	AAM	36F	24 / 14	B	10/30	CNP	10	X	X	M12	A	.XXX
SERIES magnetic multiturn absolute encoder series AAM												
MODEL blind hollow shaft with stator coupling 36F												
MULTITURN RESOLUTION bit 24												
SINGLETURN RESOLUTION bit 14												
CODE TYPE binary B												
POWER SUPPLY 10 ... 30 V DC 10/30												
ELECTRICAL INTERFACE CANopen CNP												
BORE DIAMETER mm 10												
ENCLOSURE RATING IP67 cover side / IP 65 shaft side X												
OPTIONS to be reported X												
OUTPUT TYPE M12 5 pin connector M12												
DIRECTION TYPE axial A												
VARIANTE without mating connector 162												

PRELIMINARY

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ORDERING CODE	
Description	P/N
AAM 36F 24 / 14 B 10/30 CNP 10 X X M12 A . 162	92560002

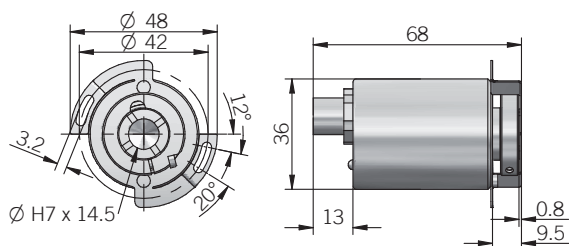


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MAGNETIC MULTITURN ABSOLUTE ENCODERS | AAM 36 F CANOPEN

AAM 36F



dimensions in mm

ELECTRICAL SPECIFICATIONS

Multiturn resolution	24 bit programmable during commissioning
Singleturn resolution	14 bit programmable during commissioning
Power supply	+10 ... 32 V DC (with reverse polarity protection)
Power draw without load	0,5 W
Electrical interface	CAN
Protocol	CANopen Communication profile CiA 301 Encoder profile CiA 406 V3.2 class C2
Node number	1 ... 127 (default 127) programmable during commissioning
Baud rate	10 kBaud ... 1 Mbaud with automatic bit rate detection
LSS protocol	according to CiA 305
CAN transmission modes	programmable (Synchronous and Asynchronous)
LED error messages	according to CiA 303-3
Code type	binary
Position update rate	≤ 600 μs
Start-up time	< 1,5 s
Accuracy	± 0,35°
Electromagnetic compatibility	according to 2014/30/EU directive
RoHS	according to 2011/65/EU directive

CONNECTIONS

Function	5 pin M12
+ V DC	2
0 V	3
CAN_H	4
CAN_L	5
CAN_GND (shield)	1
⊕	shield connected to encoder housing

MECHANICAL SPECIFICATION

Bore diameter	∅ 10 mm
Enclosure rating IEC 60529	IP 67 cover side / IP65 shaft side
Max rotation speed	6000 rpm
Max shaft load	80 N radial / 50 N axial
Shock	100 G, 6 ms (IEC 60068-2-27)
Vibrations	30 G, 10 ... 2000 Hz (IEC 60068-2-6)
Starting torque (at +20°C / +68°F)	< 0,002 Nm (0,28 Ozin)
Bearing stage material	aluminium
Shaft material	stainless steel
Housing material	chromium plated steel
Bearings	2 ball bearings
Bearings life	10 ⁹ revolutions
Operating temperature	-40° ... +85°C (-40° ... +185°F)
Storage temperature	-40° ... +100°C (-40° ... +212°F)
Weight	110 g (3,88 oz) approx

M12 connector(5 pin)
M12 A coded
solder side view FV



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