AAM 38 F BISS

BLIND HOLLOW SHAFT MULTITURN ABSOLUTE ENCODER

MAIN FEATURES

Miniaturized optical multiturn absolute encoder for high end application. Thanks to BiSS-C interface and high resolution it can be used in robotics, motor feedback and CNC machines.

- · Optical sensor technology (OptoASIC + Energy Harvesting)
- · 39 bit total resolution (23 bit single turn + 16 bit multiturn)
- · Power supply +5 VDC with BiSS-C as electrical interface
- · Cable output
- · Blind hollow shaft diameter up to 8 mm
- · Mounting by stator coupling
- · Operating temperature -20° ... +105°C (-4° ... +221°F)







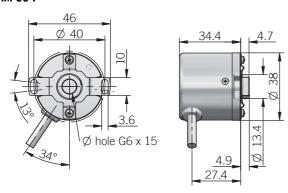


ORDERING CODE	AAM	38F	16	/ 23	В	5	В	8	X	X	PR	.XXX
	SERIES absolute multiurn encoder AAM blind hollow shaft with stator cou	MODEL pling 38F ITURN RES	SOLUTION bit 16	SOLUTION bit 23	ODE TYPE							
				Ç.	binary B POWER	R SUPPLY 5 V DC 5 Trical in	ITERFACE Biss-C B	IAMETER				
								mm 6 mm 6,35 mm 8 ENCLOSUR	E RATING IP 50 X	OPTIONS		
								radial		eported X OUTI dard length	PUT TYPE 0,2m) PR	VARIANT rsion XXX

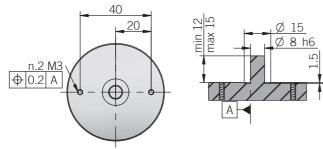




AAM 38 F



RECOMMENDED INTERFACE FLANGE DESIGN



dım	ensions	ın	mm

ELECTRICAL SPECIFICATIONS		
Multiturn resolution	16 bit	
Singleturn resolution	23 bit	
Fault status	8 bit	
CRC	8 bit	
Power supply ¹	4,75 5,25 V DC	
Current consumption without load		
Output type ²	BiSS-C (SN65LBC179Q)	
Code type	binary	
Clock frequency (MA)	80 kHz 10 MHz	
Position Calculation Time	ion Calculation Time Refer to BiSS-C T _{busy time}	
Counting direction	decreasing clockwise (shaft view)	
Start-up time	e 500 ms	
Accuracy	y ± 80 arc-sec	
Electromagnetic compatibility	according to 2014/30/EU directive	
RoHS	s according to 2011/65/EU directive	

CONNECTIONS				
Function	Cable			
+ V DC	red			
GROUND	black			
SERIAL DATA (SLO) +	orange			
SERIAL DATA (SLO) -	blue			
SERIAL CLOCK (MA)+	brown			
SERIAL CLOCK (MA) -	white			

MECHANICAL SPECIFICATIONS		
liameter Ø 6 / 6.35 (1/4") / 8 mm		
IP 50 (IEC 60529)		
6000 rpm continuous		
200 G, 6 ms (IEC 60068-2-27)		
10 G, 10 2000 Hz (IEC 60068-2-6)		
brass		
steel		
aluminum		
n.2 ball bearings		
10 ⁹ revolutions		
-20° +105°C (-4° +221°F)		
-20° +105°C (-4° +221°F)		
± 0,05 mm		
± 0,1 mm		
1 Nm recommended		
0,35 Nm recommended for M3 screws (not provided)		
150 g (5,29 oz)		



¹ as measured at the transducer without cable influences ² for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section

³ measured on the transducer flange

⁴ condensation not allowed