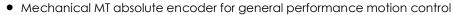


Low profile modular encoder AM34C



- Outer diameter 46mm, mounting depth 21mm
- ST solution up to 23 bits and MT up to 12 bits
- Operating temperature from -40° C to +110° C
- Maximum continuous speed up to 10,000 rpm
- Automatic accuracy compensation to crease absolute accuracy
- RS485 communication compatible to Asia market mainstream protocol.
- Ideal economic solution for Robot, AGV where tight space is necessary.







TECHNICAL DATA

Mechanical

Outside diameter	46 mm
Shaft	6mm/8mm hub shaft
Mounting depth	21 mm
Installation	3x M3x8
Protection class	IP20
Axial endplay of mounting shaft	±0.2 mm
Radial runout of mating shaft	TIR 0.05 mm
Max. speed	10,000 rpm
Vibration resistance (DIN EN 60068-2-6)	400 m/s² (60 ··· 2000 Hz)
Shock resistance (DIN EN 60068-2-27)	2,000 m/s² (6 ms)
Shaft/housing material	Stainless steel/engineering plastics
Connection	8PIN
Storage temperature	-30° C +80° C (due to packaging)
Operating temperature	-40° C +110° C (85° C for option)

Vision: V1.1





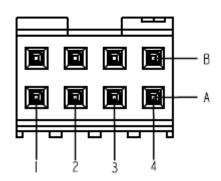


Low profile modular encoder AM34C

TECHNICAL DATA
Electrical

General design	as per EN IEC 61010-1, protection class III, contamination level 2, overvoltage class II		
Supply voltage	5VDC ±10%		
Power consumption	Max 120mA		
ST resolution	23 bit (Number of pulses 512)		
MT resolution	12 bits mechanical gearbox (lifetime maintenance free)		
EMC	As per IEC 61326-1 industrial application environment		
electrostatic (ESD)	Refer to IEC61000-4-2 for test levels and methods		
Fast Transient Pulse (Burst)	Refer to IEC61000-4-4 for test levels and methods		
Surge (Surge)	Refer to IEC61000-4-5 for test levels and methods		
Output interface	RS485 compatible RS422 compatible-BiSS-C		
Communication protocol	RS485 Compatible/BiSS-C		
OEM Storage area	8K bytes		
Absolute accuracy typ.	AM34H±80" /AM34L±120"		
Repositioning Accuracy	Max ± 10"		

ELECTRICAL CONNECTIONS RS485 Compatible



PIN	Color	Signal	PIN	Color	Signal
1A	/	Shield	1B	Violet	Calibration
2A	/	/	2B	/	/
3A	Blue	SD+	3B	Blue/Black	SD-
4A	Red	+5V	4B	Black	GND

Vision: V1.1

Issue Date: 2024/05/10

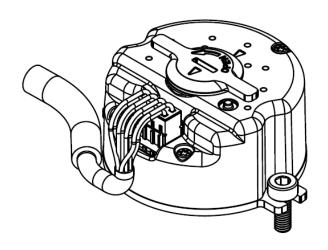


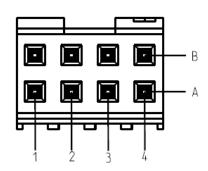
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Low profile modular encoder AM34C

ELECTRICAL CONNECTIONS
BiSS-C





PIN	Color	Singal	
1A	Drain	SHIELD	
2A	Green	DATA+	
3A	Blue	CLOCK+	
4A	Red	+5V	
1B	Pink	KEY	
2B	Green/Black	DATA-	
3B	Blue/Black	CLOCK-	
4B	Black	GND	

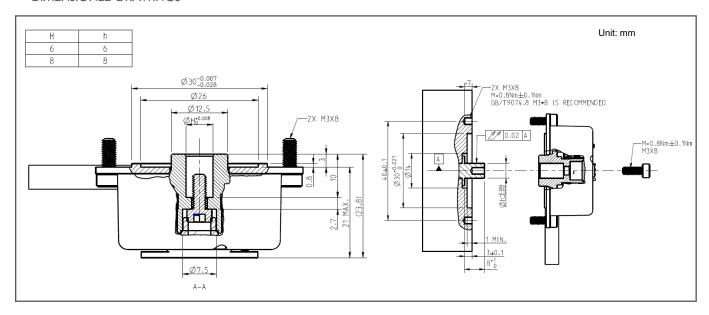
Vision: V1.1

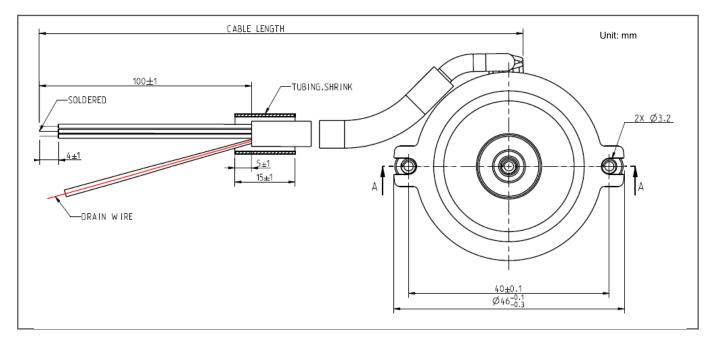
Issue Date: 2024/05/10



Low profile modular encoder AM34C

DIMENSIONED DRAWINGS





ORDERING INFORMATION

Туре	Resolution	Supply voltage	Shaft	Interface	Temperature	Connection
АМ34Н	1223 12bit MT+23bit ST	A 5VDC	Z.0F 6mm	BE BISS-C	A -40° C	A5 0.5m cable
High	0823 8bit MT+23bit ST		Hub Shaft	AS RS485 Compati-	+85° C	
AM34L			Z.0T 8mm	ble	B -40° C	
Normal			Hub Shaft		+110° C	

Vision: V1.1	
Issue Date: 2024/05/10	

