Cable transducer

Interface SSI

Measuring length absolute up to 5 m

BMMS K50 SSI - MAGRES



BMMS K50 SSI with flange connector M12

Features

- Magnetic sensing method
- Resolution: 0.0591 mm/step
- Interface SSI
- Measuring length up to 5 m
- Removable cabs for water outlet
- Extremely light thanks to housing of plastic and aluminium

Technical data - electrical ratings				
Voltage supply	1030 VDC			
Consumption w/o load	≤60 mA (24 VDC)			
Initializing time	≤170 ms after power on			
Interface	SSI			
Function	Linear position feedback			
Resolution	0.0591 mm/step			
Linearity	±0.61 % full scale output (f.s.o.)			
Absolute accuracy	±1.03 % f.s.o. (+25 °C) ±1.11 % f.s.o. (-40+85 °C)			
Sensing method	Magnetic			
Code	Gray or binary			
Inputs	SSI clock Zero setting input			
Output stages	SSI data: Linedriver RS422			
Interference immunity	DIN EN 61000-6-2			
Emitted interference	DIN EN 61000-6-4			

Technical data - mechanical design				
Protection DIN EN 60529	IP 65 (encoder)			
Materials	Encoder housing: aluminium Cable-pull housing: PA6 GF30 Cable: Stainless steel cable coated with polyamide			
Operating temperature	-40+85 °C			
Service life	Typ. >500000 strokes			
Measuring length	5 m			
Distance/revolution	242 ±1 mm			
Cable acceleration	≤50 m/s²			
Cable diameter	0.61 mm			
Pull-in force	>3 N			
Pull-out force	≤9 N			
Relative humidity	95 % temporary condensing			
Resistance	DIN EN 60068-2-6 Vibration 10 g, 10-2000 Hz DIN EN 60068-2-27 Shock 50 g, 11 ms			
Weight approx.	600 g			
Connection	Flange connector M12, 8-pin Cable 2 m			
Bending radius	Cable: >55 mm			
Special characteristics	Coated electronic			
Instruction	Please consider the assembly instructions			

Subject to modification in technic and design. Errors and omissions excepted.

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Part number 24C 12/13 00 BMMS K505 R 3 Measuring wire fixation R Mount with retaining ring Connection Cable 2 m, radial Flange connector M12, 8-pin, radial Resolution 12/13 12/13 bit single-/multiturn Voltage supply / signals 24C 10...30 VDC / SSI Code Gray code N Binary code

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Accessories

Connectors and cables

10146775 Female connector M12, 8-pin, straight, without cable



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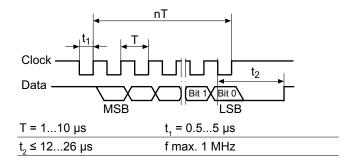
Terminal significance				
+Vs	Encoder supply voltage.			
0 V	Encoder ground connection relating to +Vs.			
Data+	Positive data output.			
Data-	Negative data output.			
Clock+	Positive SSI clock input.			
Clock-	Negative SSI clock input.			
Zero	Input for setting a zero point anywhere within the encoder resolution. The zero setting operation is triggered by a Low impulse. Connect to +Vs after setting operation for maximum interference immunity. Impulse duration >2 ms.			
Note	Include termination resistor R=120 Ohm between Data+ and Data- on control side.			

Terminal assignment Cable and flange connector M12 for connection references -5 and -N					
1	white	0 V	Supply voltage		
2	brown	+Vs	Supply voltage		
3	green	Clock+	Clock signal		
4	yellow	Clock-	Clock signal		
5	grey	Data+	Data signal		
6	pink	Data-	Data signal		
7	blue	Zero	Zero setting input		
8	red	d.u.	do not use		
Scree	n: connected to h	ousing			
Cable	data: 8 x 0.14 mr	n²			



Trigger level		
Control inputs	Input circuit	
Input level Low	<0,4 V (>2 ms)	
Input level High	+Vs or open	

Data transfer





Cable transducer

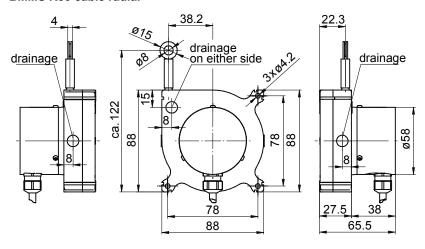
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Dimensions

BMMS K50 cable radial



BMMS K50 flange connector M12

