

Absolute encoders - SSI

Encoder with cable-pull

Magnetic multiturn encoders 12 bit ST / 13 bit MT

BMMS M75 SSI / cable-pull - MAGRES



BMMS M75 SSI with connector M12

Features

- Encoder with cable-pull / SSI
- Magnetic sensing method
- Resolution: 0.1 mm/step
- Measuring length max. 7500 mm

Technical data - electrical ratings

Voltage supply	10...30 VDC
Consumption typ.	50 mA (24 VDC, w/o load)
Initializing time	≤170 ms after power on
Interface	SSI
Function	Multiturn
Resolution	0.1 mm/step
Linearity	0.16 % of whole measuring range
Number of steps	75000 (7500 mm)
Sensing method	Magnetic
Code	Gray or binary
Inputs	SSI clock Zero setting input
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-3

Technical data - mechanical design

Protection DIN EN 60529	IP 65 (connector model), IP 67 (cable model)
Materials	Encoder housing: aluminium Cable-pull housing: PA6 GF30 Cable: Stainless steel cable coated with polyamide
Operating temperature	-40...+85 °C
Service life	Typ. 500 000 strokes
Measuring length	7.5 m
Distance/revolution	333.32 ±0.3 mm
Cable acceleration	≤15 m/s ²
Relative humidity	95 %
Resistance	DIN EN 60068-2-6 Vibration 10 g, 10-2000 Hz DIN EN 60068-2-27 Shock 50 g, 11 ms
Weight approx.	900 g
Connection	Connector M12, 5-pin Cable

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Part number

BMMS M755N

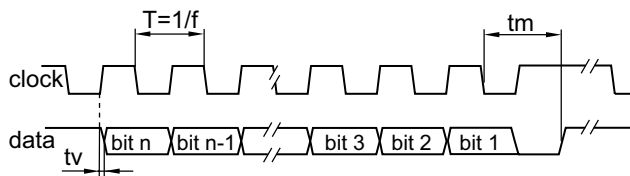
24C	12/13	00	5
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24C Voltage supply / signals
10...30 VDC / SSI

12/13 Resolution
12/13 bit single-/multiturn

5 Connection
Cable radial

Data transfer



Trigger level

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

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Terminal significance		Terminal assignment			
+Vs	Encoder supply voltage.	Cable			
0 V	Encoder ground connection relating to +Vs.	for connection references -5			
Data+	Positive, serial data output of differential linedriver.	Connector	Core colour	Signals	Description
Data-	Negative, serial data output of differential linedriver.	Pin 1	yellow	Clock-	Clock signal
Clock+	Positive SSI clock input. Clock+ together with Clock- forms a current loop. A current of approx. 7 mA towards Clock+ input means logic 1 in positive logic.	Pin 2	green	Clock+	Clock signal
Clock-	Negative SSI clock input. Clock- together with Clock+ forms a current loop. A current of approx. 7 mA towards Clock- input means logic 0 in positive logic.	Pin 3	grey	Data+	Data signal
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.	Pin 4	pink	Data-	Data signal
Rot. direction	Ascending position values when looking at the flange and rotating the shaft clockwise.	Pin 5	blue	Zero	Zero setting input
		Pin 6	–	n.c.	–
		Pin 7	–	n.c.	–
		Pin 8	–	n.c.	–
		Pin 9	red	d.u.	do not use
		Pin 10	–	n.c.	–
		Pin 11	brown	+Vs	Supply voltage
		Pin 12	white	0 V	Supply voltage
		Screen	connected to housing		
		Cable data	8 x 0.14 mm ²		

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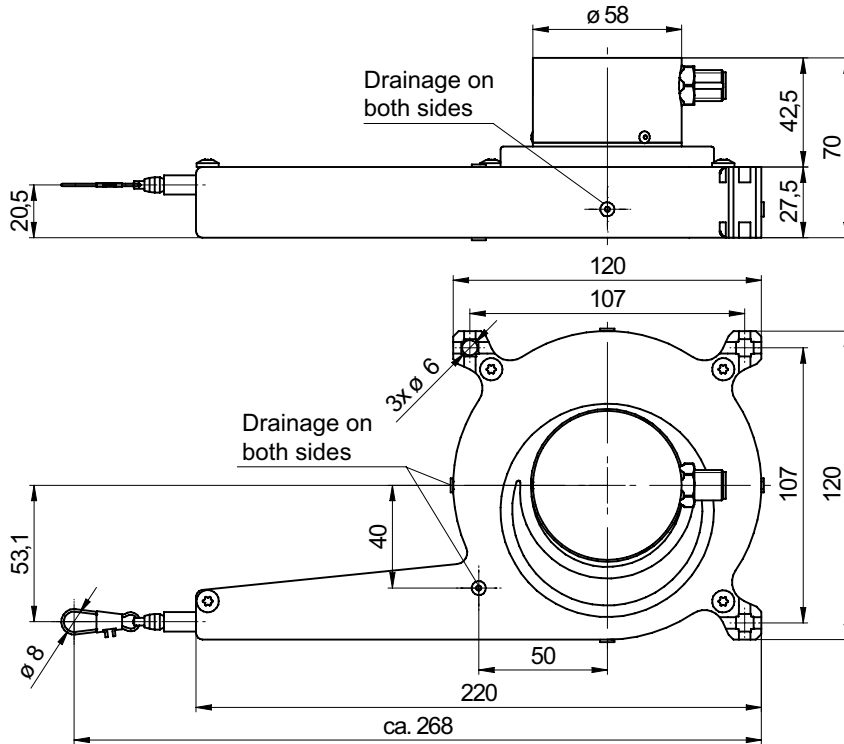
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Dimensions

BMMS M75 with connector M12



BMMS M75 with cable radial

