

Interface SSI

Measuring length absolute 2.3 m and 4.7 m

Overview

- Interface SSI
- Magnetic sensing method Operating temperature -40...+85 °C
- Protection IP 65
- Flange connector M12 or cable
- Measuring length 2.3 m and 4.7 m
- Designed for harsh environmental conditions
- Removable stickers for drainage



Picture similar

Technical data		
Technical data - electrical r	atings	
Voltage supply	4.530 VDC	
Reverse polarity protection	Yes	
Short-circuit proof	Yes	
Consumption typ.	20 mA (5 VDC, w/o load) 60 mA (24 VDC, w/o load)	
Initializing time typ.	≤ 170 ms after power on	
Interface	SSI	
Function	Linear position feedback	
Measuring range	Up to 4.7 m	
Resolution	0.0603 mm/step	
Linearity typ.	±0.2 % FS (measuring length 2.3 m) ±0.4 % FS (measuring length 4.7 m)	
Absolute accuracy typ.	± 0.3 % FS (+25 °C / measuring length 2.3 m) ± 0.6 % FS (+25 °C / measuring length 4.7 m)	
Sensing method	Magnetic	
Code	Gray or binary	
Interference immunity	EN 61000-6-2	
Emitted interference	EN 61000-6-3	
Technical data - mechanical design		
Protection EN 60529	IP 65 (housing, drainage holes closed) IP 54 (cable inlet)	

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Technical data - mechanica	ı design
Material	Cable: stainless steel cable AISI 316 coated with nylon PA12 Housing: plastic and alumimium
Operating temperature	-40+85 °C
Measuring length	2.3 m 4.7 m
Cable acceleration	≤50 m/s²
Cable diameter	0.7 mm
Cable fastening	Eyelet Height: 5 mm Internal diameter: 8 mm Outer diameter: 15 mm
Pull-in force	>1.5 N (pull-in force reduced at low temperatures)
Pull-out force	≤8 N
Relative humidity	95 % non-condensing
Resistance	EN 60068-2-6 Vibration 20 g, 58-2000 Hz EN 60068-2-27 Shock 50 g, 11 ms
Weight approx.	440 g
Connection	Flange connector M12, 8-pin Cable 2 m, radial
Instruction	Please consider the assembly instructions

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Terminal assignment Flange connector M12, 8-pin, A-coded Pin Signals Description 1 0 V Voltage supply 2 +Vs Voltage supply 3 Clock+ Clock signal 4 Clock-Clock singal 5 Data+ Data signal 6 Data-Data signal 7 SET Zero setting input 8 DIR Counting direction input Screen: connected to housing



Cable

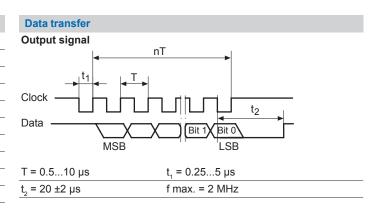
Core colour	Signals	Description
brown	+Vs	Voltage supply
white	0 V	Voltage supply
green	Clock+	Clock signal
yellow	Clock-	Clock signal
grey	Data+	Data signal
pink	Data-	Data signal
blue	SET	Zero setting input
red	DIR	Counting direction input

Terminal	significance

Screen: connected to housing

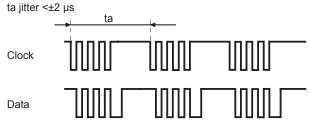
Cable data: 4 x 2 x 0.14 mm², twisted in pairs

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SET	Zero setting. Input for zero setting at any position. The zero setting operation is triggered by a high pulse and has to be in line with the selected direction of rotation (DIR). Impulse duration >100 ms. Connect to 0 V after zero setting for maximum interference immunity.
DIR	Counting direction input. The input is standard on high. For maximum interference immunity connect to +Vs respectively 0 V depending on counting direction. CW HIGH - CCW LOW (Version with DATAVALID does not include the counting directon input)



Data acquisition time ta

Following timing of the SSI Masters is the requirement for a data refresh rate of typ. 2 μ s. If this is not fulfilled the data refresh rate is <50 μ s. ta <5000 μ s



2023-01-24



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Dimensions View from A 88 ø58 5 25 70.7 7 33 Drainage 22.8 ø15 ø8 ø4.1 (3x) 37 88 22.3

GCA3 with flange connector M12

M12

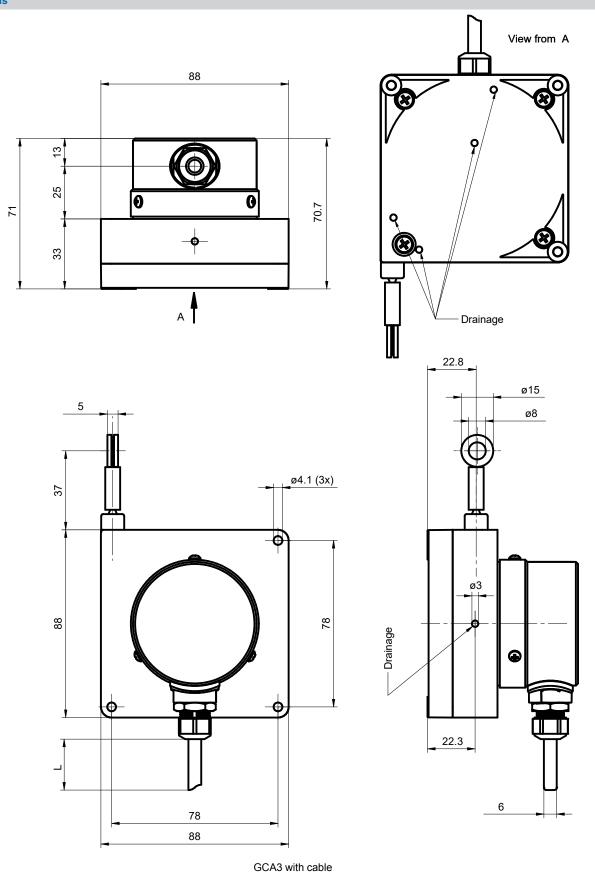
78 88



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Dimensions

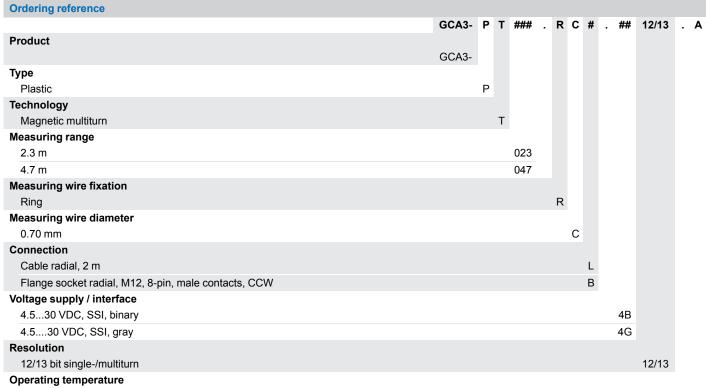


Data sheet - GCA3-PT - SSI up to 4.7 m



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