

Analog output

Measuring length absolute 2.3 m and 4.7 m

Preliminary

Overview

- Analog interface
- Magnetic sensing
 Operating temperature -40...+85 °C
- Protection IP 67
- Flange connector M12 or cable
- Measuring length 2.3 m and 4.7 m
- Designed for harsh environmental conditions
- Removable stickers for drainage



Technical data				
Technical data - electrical ratings		Technical data - mechanical design		
Voltage supply	830 VDC 1230 VDC	Material	Cable: stainless steel cable AISI 316 coated with nylon PA12	
Reverse polarity protection	Yes		Housing: plastic	
Short-circuit proof	Yes	Operating temperature	-40+85 °C	
Consumption typ.	30 mA (24 VDC, w/o load, current output) 10 mA (24 VDC, w/o load, voltage output)	(Typ. 500 000 strokes (the lifetime depends on the type of load. It is affected by environmental conditions, installation location, macauring range in	
Initializing time	≤ 500 ms after power on			
Interface	Analog 010 V / 0.54.5 V / 420 mA		installation location, measuring range in use, travel speed and acceleration)	
Load resistor	Between Out/0 V \geq 3 k Ω / voltage output 270 Ω / 10 VDC (500 Ω / 15 VDC)	Measuring length	2.3 m 4.7 m	
Function	Current output	Cable acceleration	≤1 m/s²	
	Linear position feedback	Cable diameter	0.7 mm	
Measuring range	Up to 4.7 m	Cable fastening	Eyelet Height: 5 mm Internal diameter: 8 mm Outer diameter: 15 mm	
Resolution Linearity typ.	±0.5 % FS (measuring length 2.3 m) ±0.4 % FS (measuring length 4.7 m)			
Absolute accuracy typ.	±0.6 % FS (+25 °C / measuring length 2.3 m) ±1 % FS (-40+85 °C / measuring length 2.3 m) ±0.5 % FS (+25 °C / measuring length 4.7 m) ±0.9 % FS (-40+85 °C / measuring length 4.7 m)	Pull-in force	>1.5 N (+25 °C, pull-in force reduced at low temperatures)	
		Pull-out force	≤8 N (+25 °C)	
		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	
Sensing method	Magnetic	Weight approx.	440 g	
Interference immunity	EN 61000-6-2	Connection	Flange connector M12, 5-pin	
Emitted interference EN 61000-6-3			Flange connector M12, 8-pin Cable 2 m, radial	
Technical data - mechanical design				
Protection EN 60529	IP 67 (housing, drainage holes closed) IP 54 (cable inlet)	Instruction	Please consider the assembly instructions	

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Terminal assignment				
Flange connector M12, male, 5-pin, A-coded				
Pin	Signals	Description		
1	0 V	Ground connection relating to +Vs		
2	+Vs	Voltage supply		
3	Uout/lout	Output		
4	n.c.	Do not use		
5	n.c.	Do not use		



Flange connector M12, male, 8-pin, A-coded, redundant version

cription
und connection relating to +Vs1
age supply 1
out 1
und connection relating to +Vs2
age supply 2
out 2
ot use
not use



Cable

Core colour	Signals	Description
white	0 V	Ground connection relating to +Vs
brown	+Vs	Voltage supply
green Uout/lout		Output
Cable data: 3	x 0.5 mm ² . 2 m	

Cable redundant version

Core colour	Signals	Description
white	0 V1+2	Ground connection relating to +Vs1 and +Vs2
brown	+Vs1	Voltage supply 1
green	Uout1/lout1	Output 1
yellow	+Vs2	Voltage supply 2
grey	Uout2/lout2	Output 2
Cable data: 5 x 0.5 mm ² , 2 m		

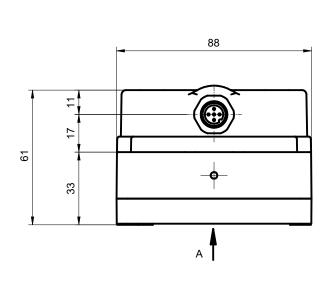


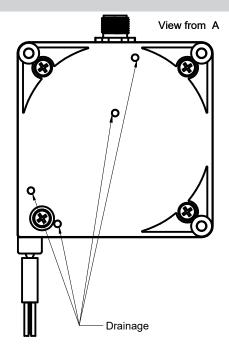
Analog output

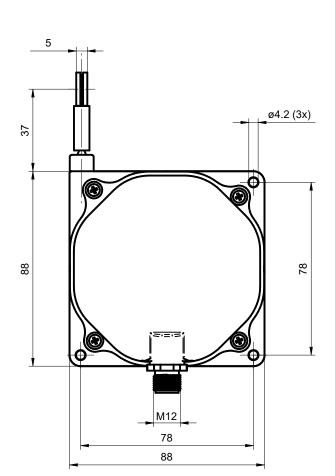
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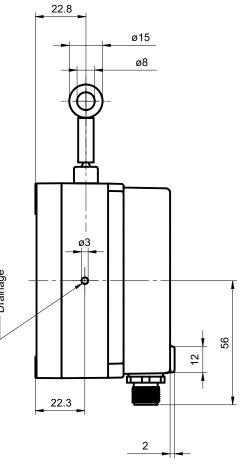
Preliminary

Dimensions









GCA3 with flange connector M12

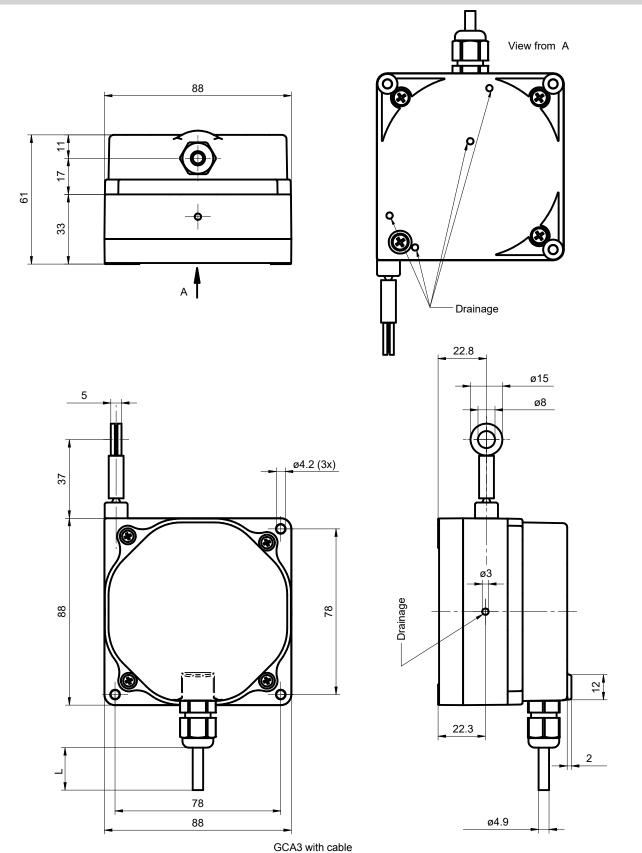


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Dimensions



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