

Solid shaft with clamping flange, optical multiturn encoder up to 21 bit ST / 16 bit MT $\,$

Article number: 11268030

Overview

- Encoder multiturn / bus cover
- Optical sensing method
- Resolution: singleturn 21 bit (default: 13 bit), multiturn 16 bit (default: 16 bit)
- Total resolution up to 31 bit
- Clamping flange
- Interface: Profibus-DPV0
- Internal continuity check with diagnostic information by bus
- Maximum resistant against magnetic fields
- Gear factor adjustable via numerator / denominator



Picture similar

Technical data			
Technical data - electrical ratings		Technical data - electrical ratings	
Voltage supply	830 VDC	Approval	UL approval / E217823
Reverse polarity protection	Yes	Technical data - mechanical design	
Consumption w/o load	≤100 mA (24 VDC)	Size (flange)	ø58 mm
Initializing time typ.	180 ms after power on	Shaft type	ø10 x 20 mm, solid shaft with flat
Interface	Profibus-DPV0	Flange	Clamping flange
Function	Multiturn	Protection EN 60529	IP 65 / IP 67 (with shaft seal)
Device adress	Rotary switches in bus cover	Operating speed	≤6000 rpm (+25 °C)
Steps per revolution	≤2097152 / 21 bit	Starting acceleration	≤1000 U/s²
Number of revolutions	≤65536 / 16 bit	Starting torque	≤0.04 Nm (+25 °C, IP 65 / IP 67)
Absolute accuracy	±0.01 °	Admitted shaft load	≤40 N axial
Sensing method	Optical		≤80 N radial
Code	Binary	Material	Housing: aluminium Flange: aluminium Bus cover: zinc die-cast
Interference immunity	EN 61000-6-2		
Emitted interference	EN 61000-6-3		Shaft: stainless steel
Programmable parameters	Steps per revolution Number of revolutions Preset Scaling Rotating direction Gear factor	Operating temperature	-40+85 °C (see general information)
		Relative humidity	95 % non-condensing
		Resistance	EN 60068-2-6 Vibration ±0.75 mm - 10-58 Hz, 10 g - 58- 2000 Hz EN 60068-2-27 Shock 200 g, 3 ms
Diagnostic function	Position or parameter error Multiturn sensing Operating hour counter		
		Weight approx.	550 g
Status indicator	DUO-LED integrated in bus cover	Connection	Cable gland

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General information

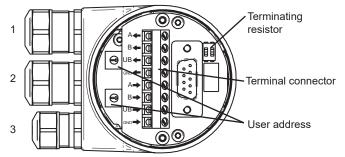
Self-heating correlated to installation and ambient conditions as well as to electronics and supply voltage must be considered for precise thermal dimensioning. Operating the encoder close to the maximum limits requires measuring the real prevailing temperature at the encoder flange.

Terminal assignment				
Cable gland				
+Vs	Voltage supply 830 VDC			
0 V	Ground connection relating to +Vs			
Α	Negative data line			
В	Positive data line			
Terminals of the same significance are internally connected and identical				

Terminals of the same significance are internally connected and identica in their functions. Max. load on the internal terminal connections Vs-Vs and 0V-0V is 1 A each.

View inside bus cover

Cable gland



Cable: 1, 2 = ø8-10 mm (-40-85 °C) / ø5-9 mm (-25-85 °C) Cable: 3 = ø4.5-6 mm (-40-85 °C) / ø3-6 mm (-25-85 °C)

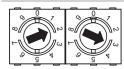
Terminating resistor



Both ON = final user Both OFF = user X

Default: OFF

User address



Defined by rotary switch. Example: User address 23

Default: 00

Profibus-DP features	
Bus protocol	Profibus-DPV0
Device profile	Device Class 1 and 2
Cyclic data exchange	Communication in line with DPV0
Input data	Position value. In addition optionally speed signal parametering.
Output data	Preset value
Preset	Parameter for setting the encoder to a requested position value assigned to a defined shaft position of the system. Storage non-volatile.
Rotating direction	Parameter for defining the rotating direction in which there have to be ascending or descending position values.
Scaling	Parameter defining the steps per turn as well as the total resolution.
Gear factor	Adjustable via numerator / denominator.
Diagnosis	Position and parameter error Multiturn sensing control Operating hour counter readable



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Dimensions 79 10 20 ø10f7 33 15 60 ø36f8 ø53 ø58 63 M3x7 0 ø48 ±0.2 18

EN580C.ML-SC - cable gland

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Accessories			
Mounting accessories			
11065545	Set of eccentric fixings type A		
10141255	Adaptor plate for clamping flange to convert into synchro flange		
10125051	Mounting adaptor		
10141133	Spring washer coupling (D1=10 / D2=10)		