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 IP65 absolute encoder WDGA CANopen ready-mounted www.wachendorff-automation.com/szg81wdgacan

• Measuring range: 0 mm bis 2.500 mm bis 0 mm bis 6.250 mmm

The draw-wire encoder SZG81 WDGA CANopen was developed for use in harsh environments. The various methods of installation mean high flexibility. It can be used even where space is tight, thanks to its compact dimensions. The SZG81 WDGA CANopen can be mounted quickly and with its highly precise mechanics provides reliable accurate length measurement, with all advantages, which result from an absolute lenght measurement. e. g. The position-value is saved, if supply breaks down and is available immediately if supply gets recovered. Doing a reference run isn't necessary. The intelligent spring-suspension and the nylon-coated stainless-steel wire cable guarantee long-service life, even in difficult operating conditions. The encoder is already installed.

• Exceptionally rugged length sensor

Interface: CANopen CiA 406

free configurable

Draw-wire system SZG81 - WDGA CANopen



Typical areas of application include:

lift/elevators, lifting platforms, theatre stages, fork lifts and cranes.

Measurement ranges::

0 mm up to 2.500 mm, 0 mm up to 3.500 mm, 0 mm up to 5.000 mm and 0 mm up to 6.250 mm

Resolution measurement ranges WDGA58A:

Bit per revolution
8
9
10
11
12

Deviation: Less than 0.02 % of the final value.

Measuring wire: 0.86 mm of thick nylon coated high-grade steel wire.

Wire connection:	eye
max. wire speed:	7.5 m/sec.
Pull out strength:	approx. 0.5 kg

System-unit housing: anodised aluminum

Weight: SZG incl. encoder max. 2.5 kg

Life expectancy: At least 10 million cycles

Operating temperature:	-40 °C up to +80 °C
Storage temperature:	-40 °C up to +80 °C

Interface	
Protocol	

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CAN

Protocoi:	CANopen - Communication profil CiA 301 - Device Profile for encoder CiA 406 V3.2 class C2	
Node number:	0 up to 127 (default 127)	
Baud rate:	10 kBaud up to 1 MBaud	

with automatic bit rate detection

The standard settings as well as any customization in the software can be changed via LSS (CiA 305) and the SDO protocol, e.g. PDOs, Scaleing, Heartbeat, Node-ID, Baud rate, etc.

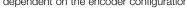
It is recommend to configure object 6000 h resolution and direction to ccw.

Programmable CAN transmission modes

- Sychronous mode: when a synchronisation telegram (SYNC) is received from another bus node, PDOs are transmitted independently.
- Asynchronous mode: a PDO message is triggered by an internal event. (e.g. change of measured valued, internal timer, etc.)

Electrical Data: S

Supply voltage:	10 VDC up to 30 VDC
	max. 50 mA
Power consumption:	max. 0.5 W



17.5 <u> </u> • • • • •	117.8	}	
101.6		20.1	Encoder
Wire completely pull out	THE I	Vire not complete	7.1 Iy pull out rement (A) mm
26.9		ranges	
	152.2		Encoder
+.0	155.4 4.03		
:		} −	
All details in mm and c	lependent on t	the encoder con	figuration.

Connection configuration for encoder WDGA CANopen

Connection configuration for encoder WDGA CANopen:			
Definition	connector pin (connector- encoder)	Sensor connector pin assignment 5-pin	
U _B	2	1	
Ground (GND)	3	5	
CAN _{High}	4		
CAN _{Low}	5	3	
CAN _{GND} / shield	1		



Ordering information:

Measurement range:

