



Online Data Sheet

앱솔루트 CAN SAE J1939 통신 마그네틱 로터리 엔코더 WDGA 58V 시리즈

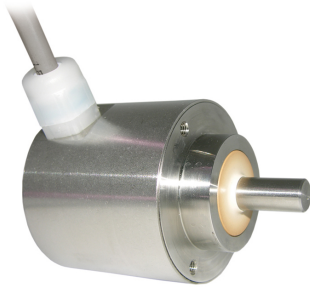
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- Complete systems
- Industrial rugged encoders to suit your application
- Standard range and customer versions
- Maximum permissible loads
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- Made in Germany
- Worldwide distributor network

Encoder WDGA 58V CAN SAE J1939
www.wachendorff-automation.com/wdga58vsaej1939

Industrie ROBUST

Encoder WDGA 58V absolute CAN SAE J1939 magnetic, with EnDra® Technology



EnDra®
Technologie

SAE J1939

**Especially for food and beverage industry,
acid- and alkaline resistance**

1. **CAN SAE J1939** 프로토콜 절대형 로터리 엔코더
 - 프로토콜 : ISO11898(High Speed CAN)
 - 중장비 어플리케이션 전용 통신 프로토콜
2. **EnDra®** 기술을 활용한 멀티턴 분해능
 - 최대 32bit 대응
 - 위치 기억을 위한 배터리, 기어 불필요
3. **EHEDG(European Hygienic Engineering & Design Group)**
 - 유럽 식품 위생 인증 제품
 - 제약 및 식품 공정의 정밀 기계사용
4. **Ecolab**의 세척 및 소독 저항에 대한 인증
 - Acid&alkaline 저항성
5. **IEC 60068-2-11** 규격의 염수 분무 시험 통과
6. **PTFE(테프론) Sealing**으로 완전 방수
 - IP69K 보호 등급
 - 고압 / 스팀 클리닝 대응

Mechanical Data	
Housing	
Flange	clamping flange
Flange material	stainless steel, V4A
Housing cap	stainless steel, V4A
Housing	Ø 58 mm
Shaft(s)	
Shaft material	stainless steel, V4A
Starting torque	approx. 1 Ncm at ambient temperature
Shaft	Ø 10 mm
Shaft length	L: 18 mm
Max. Permissible shaft loading radial	100 N
Max. Permissible shaft loading axial	100 N
Bearings	
Bearings type	2 precision ball bearings
Nominal service life	1 x 10 ⁹ revs. at 100 % rated shaft load 1 x 10 ¹⁰ revs. at 40 % rated shaft load 1 x 10 ¹¹ revs. at 20 % rated shaft load
Max. operating speed	3600 rpm
Machinery Directive: basic data safety integrity level	
MTTF _d	1000 a
Mission time (TM)	20 a
Nominal service life (L10h)	1 x 10 ¹¹ revs. at 20 % rated shaft load and 3600 rpm
Diagnostic coverage (DC)	0 %
Electrical Data	
Power supply/Current consumption	10 VDC up to 32 VDC: typ. 50 mA
Power consumption	max. 0.5 W
Sensor data	
Single-turn technology	innovative hall sensor technology
Single-turn resolution	16.384 steps/360° (14 bit)

Single-turn accuracy	< ±0.35°
Single-turn repeat accuracy	< ±0.20°
Internal cycle time	≤ 600 µs
Multi-turn technology	patented EnDra® technology no battery, no gear.
Multi-turn resolution	up to 262,144 revolutions (18 bit)
Environmental data	
ESD (DIN EN 61000-4-2):	8 kV
Burst (DIN EN 61000-4-4):	2 kV
includes EMC:	DIN EN 61000-6-2 DIN EN 61000-6-3
Vibration: (DIN EN 60068-2-6)	50 m/s ² (10 Hz up to 2000 Hz)
Shock: (DIN EN 60068-2-27)	1000 m/s ² (6 ms)
Design:	according DIN VDE 0160
Turn on time:	<1,5 s
Interface	
Interface:	CAN
CAN physical layer:	ISO 11898 (High Speed CAN)
Protocol:	ISO 11898 (High Speed CAN)
Baud rate:	Auto-Baud-Detection
Standard Preset configuration:	(other configurations on request)
Direction of counting:	(View from shaft end) ccw
ECU-address:	0x 0A
Process data Identifier:	0x18FF000A
PGN:	0xFF00
Process data mapping:	Byte 0-3 32 Bit Position Value Byte 4 8 Bit Error Register PDU timer and Position Preset can be adjusted by PGN configuration 0xEF00 (Prop. A)
PDU - Time:	50 ms (default)
Configuration - PGN:	0x EF 00 (Prop.A)
Byte 0:	0x 01

Byte 1:	0x FF
Byte 2:	PDU time LSB
Byte 3:	PDU time MSB
Byte 4:	Preset LSB
Byte 5, 6:	Preset
Byte 7:	Preset MSB

General Data

Weight	approx. 600 g
Connections	cable outlet (TPE)
Protection rating (EN 60529)	IP67 all around and IP69K. Resistance to salt mist (IEC 60068-2-11) after 672 hours.
Operating temperature	-20 °C up to +80 °C
Storage temperature	-20 °C up to +80 °C

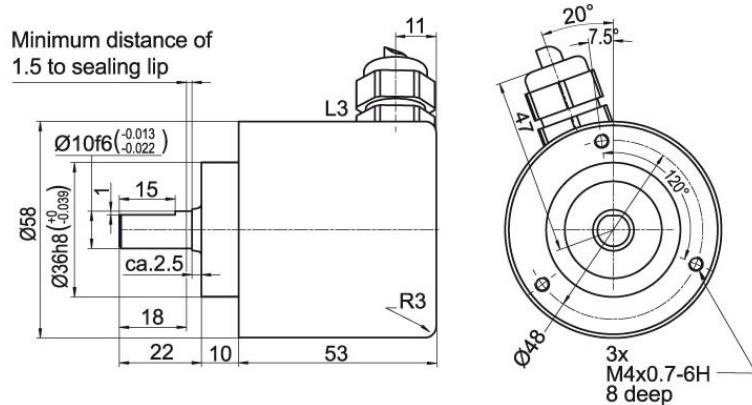
More Information

General technical data and safety instructions

<http://www.wachendorff-automation.com/gtd>

Options

<http://www.wachendorff-automation.com/acc>

Cable connection L3 with 2 m cable

Description

L3 radial, shield connected to encoder housing

Assignments	
(+) Vcc	BN
GND	OG
CANHigh	GN
CANLow	YE
CANGND shield	shield

Example Order No.	Type	Your encoder	
WDGA 58V	WDGA 58V	WDGA 58V	
	Shaft	Order key	
10	Ø 10 mm	10	
	Single-turn Resolution	Order key	
14	Single-turn resolution 14 bit: (standard) max. 14 bit possible	14	
	Multi-turn Resolution	Order key	
18	Multi-turn 18 bit (standard) max. 32 bit possible No Multi-turn = 00	18	
	Data protocol	Order key	
CJ	CAN SAE J1939	CJ	
	Software	Order key	
A	up to date release	A	
	Code	Order key	
B	binary	B	
	Power supply	Order key	
0	10 V up to 32 V (standard)	0	
	Galvanic isolation	Order key	
0	no	0	
	Electrical connections	Order key	
L3	Cable:		
	radial, shield connected to encoder housing	L3	

Example Order No.	WDGA 58V	10	14	18	CJ	A	B	0	0	L3
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WDGA 58V										Example Order No.
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For further information please contact our local distributor.
Here you find a list of our distributors worldwide.
http://www.wachendorff-automation.com/distributors_worldwide.html

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