Position
measurement
in elevator technology

WACHENDORFF
Automation GmbH & Co. KG

- **Absolute encoders with EnDra® technology**

- **CANopen LIFT CiA 417**

- **Galvanic isolated**

- **LED for diagnosis**

- **D-SUB connector, 9-pin**

CANopen® LIFT

WARRANTY
5 YEARS JAHRE
GARANTIE

c **UL** us
LISTED

Industrie ROBUST

Position measurement in elevator technology
... Encoder WDGA58B CANopen with 9-pin D-SUB connector

- EnDra® maintenance-free and environmentally friendly
- Galvanic isolation
- Communication Profile according to CiA 301
- Application Profile CANopen LIFT CiA 417
- Single-/Multiturn (max. 14 bit / 39 bit)
- Future-oriented technology with 32 Bit processor
- 2-colour-LED as indicator for operating condition and error message appropriate CiA 303-3
- Connector outlet male: D-SUB, 9-pin

EnDra® Technologie

CANopen LIFT

Mechanical Data

Housing

Flange	clamping flange
Flange material	aluminum
Housing cap	steel case chrome-plated, magnetic shielding
Housing	Ø 58 mm

Shaft(s)

Shaft material	stainless steel
Shafts	Ø 6 mm / Ø 8 mm / Ø 10 mm / Ø 3/8"
Shaft length	L: 12 mm / 20 mm
Permis. shaftloading radial	max. 125 N / 220 N
Permis. shaftloading axial	max. 120 N
Max. operating speed	8000 rpm

Electrical Data

Power supply/ Current consumption	10 VDC up to 32 VDC: max. 100 mA
Power consumption	max. 1 W

Sensor data

Singleturn technology	innovative hall sensor technology
Singleturn resolution	16,384 steps/360° (14 bit)
Singleturn accuracy	< ±0,35°
Singleturn repeat accuracy	< ±0,20°
Intern cycle time	≤ 600 μs
Multiturn technology	patented EnDra® technology no battery and no gear.
Multiturn resolution	up to 262,144 revolution (18 bit) with high precision value up to 39 bit.

General Data

Connections	connector outlet male D-SUB, 9-pin
Protection rating (EN 60529)	IP40
Operating temperature	-40 °C up to +80 °C
Storage temperature	-40 °C up to +100 °C

Interface

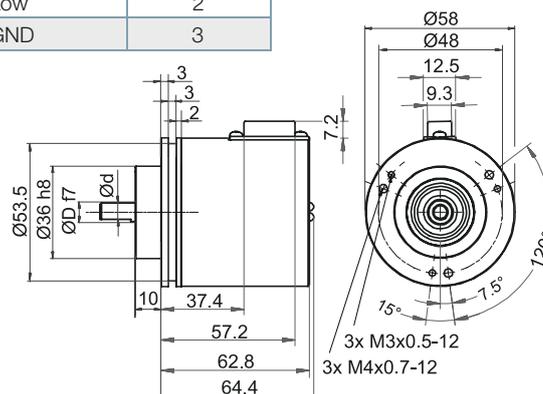|	
Interface:	**CAN**
Protocol:	CANopen • Communication profil CiA 301 • Application Profile CANopen LIFTCiA 417 V2.0 • Up to three virtual devices *car position unit (configurable)*
Node number:	1 up to 127 (default 4)
Baud rate:	50 kBaud up to 1 MBaud with automatic bit rate detection.
Advice:	The standard settings as well as any customization in the software can be changed via LSS (CiA 305) and the SDO protocol, e. g. PDOs, Scaling, Heartbeat, Node-ID, Baud rate, etc.
Programmable CAN transmission modes:	**Sychronous mode:** when a synchronisation telegram (SYNC) is received from another busnode, PDOs are transmitted independently. **Asynchronous mode:** a PDO message is triggered by an internal event. (e.g. change of measured valued, internal timer, etc.)

Assignments	
+UB	9
GND	6
CANHigh	7
CANLow	2
CANGND	3

Ø58
Ø48
12.5
9.3
7.2
Ø53.5
Ø36 h8
Ød
ØD f7
3
3
2
10
37.4
57.2
62.8
64.4
120°
7.5°
15°
3x M3x0.5-12
3x M4x0.7-12

Your distributor: