

## Wire length encoder

## CMW58M\*2048/4096 CO SLG/ME5M DUR00

OrderNo.:CMW58M-00101

21.5.2023 / 010103020105021158

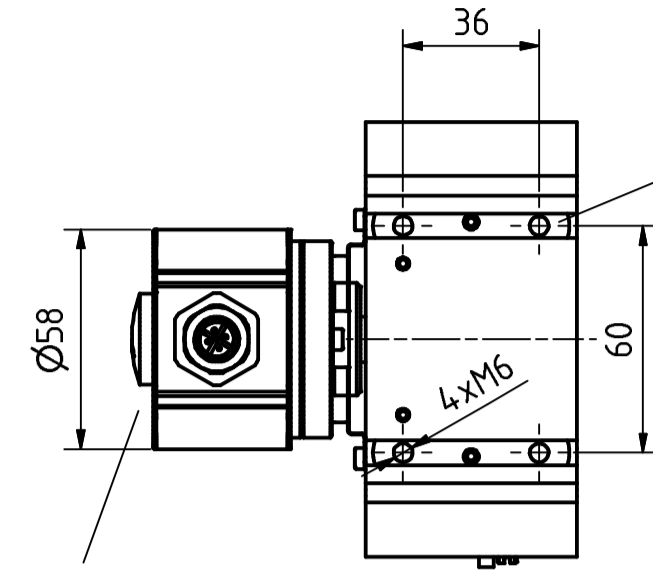
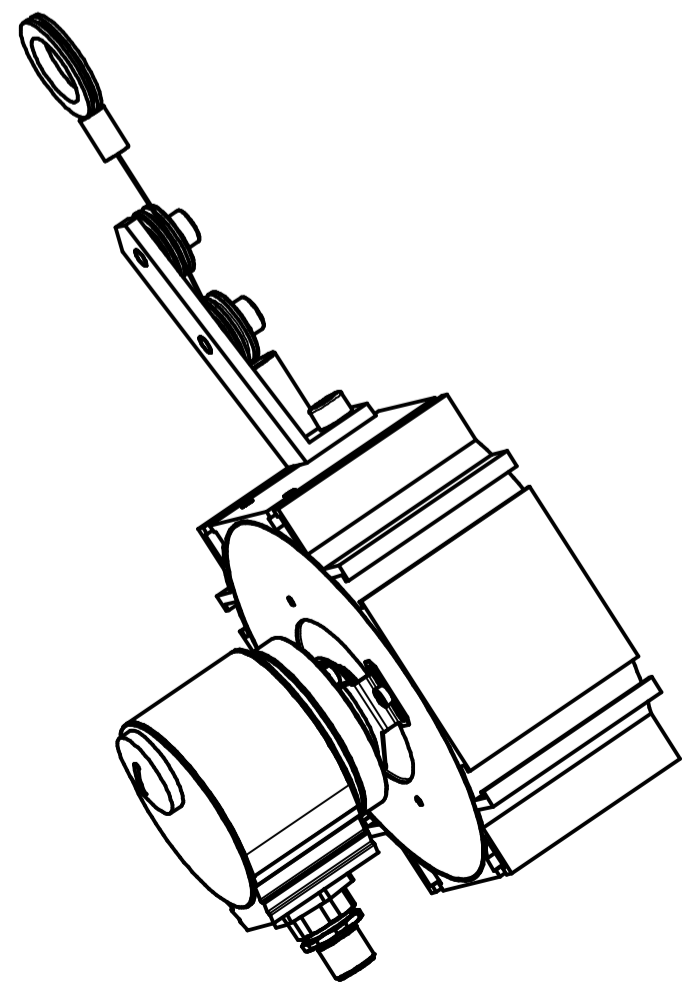
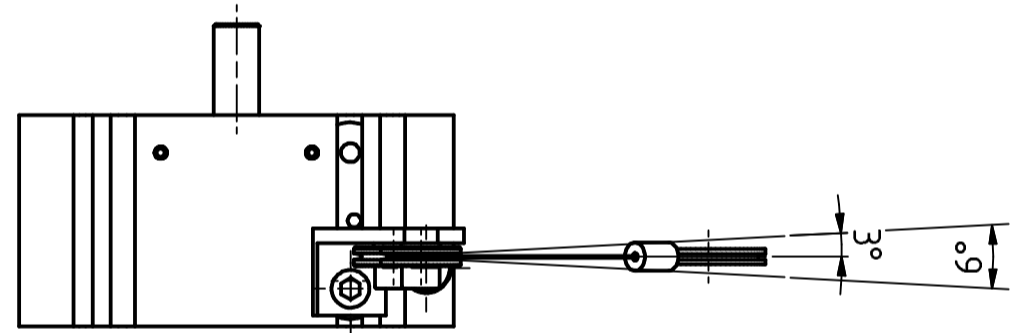
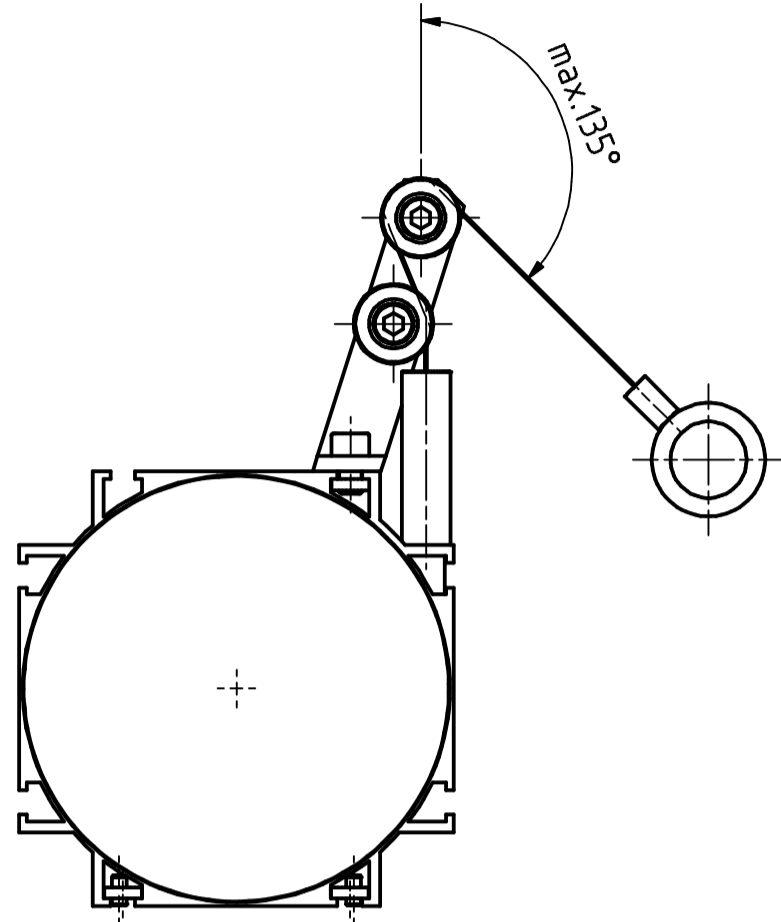
## Technical data

NO.OF STEPS/REV	2.048,000
NO. OF REVOLUTIONS	4.096,000
INTERFACE	CAN/OPEN
CODE	PROGRAMABLE
SUPPLY VOLTAGE	11-27V
OUTPUT LEVEL	82C250
PROTECTION Class	IP65
OPERATING TEMPERATURE	0-60°C
SHAFT TYPE	12H7 BLIND SHAFT
CONNECTOR TYPE	1X5P.M12-CONNECTOR
CONNECTOR-POSITION	RADIAL
PINOUT NO.	TR-ECE-TI-DGB-0165
MATING PLUG	NO
OPTIONS ENC	BAUDRATE 500KBD
OPTIONS ENC	BEI SEILAUZUG WERTE STEIGEND
OPTIONS ENC	CAN-ADRESSE 1
OPTIONS ENC	ME-WDS-5000-P115-M 5,0M DUR
OPTIONS ENC	PIN OUT CIA DR 303-1 - CONFORM
OPTIONS ENC	PROFIL DS406
OPTIONS ENC	ROPE LENGTH TRANSMITTER
OPTIONS ENC	TERMINATOR "ON"
OPTIONS ENC	VALUE ON HALF CAPACITY
SLG-ORDER NO	40730017
DRAWING NO.	04-CMW58M-M0076
VERSIONNO	000
MATING PLUG	ZENTRAL
FIRMWARE NO	437711
DOCUMENTATION NO	DOKUMENTE
AL:	N
ECCN:	N
SLG-RATIO	315.60...316,00 mm/TURN
SLG-LINEARITY	+/-0,02% (Tol. bei 0-1m: ±5mm)
SLG-TEMPERATURE RANGE	-20°C...+80°C
SLG-PROTECTION CLASS	IP54 / IP65 BOTTOM OUTLET
SLG-SPRING FORCE	min.3N / max.7,5N
SLG-B10-Value	450.000 bei 52.800 Zyklen p.a.
SLG-ROPE DIAMETER	0,45 mm
SLG-PULLOUT ANGLE	max. +/-3°

<b>GL</b>	Wellenausführung glatt / shaft type cylindrical
<b>FL</b>	Wellenausführung mit Fläche / shaft type with flat surface
<b>N</b>	Wellenausführung mit Nut / shaft type with slot
<b>Hohlw</b>	Hohlwelle / hollow shaft
<b>Klemme</b>	mit Klemmring / with clamping ring
<b>Grundw</b>	Grundwelle / fundamental shaft
<b>SLG</b>	Seillängengeber / cable retractor
<b>ZB</b>	Zentrierbund / centre ring
<b>Tachofl</b>	Tachoflansch / tachometer flange
<b>DAG</b>	DAG-Schutzgehäuse / DAG protective housing
<b>TK</b>	Teilkreis / pitch circle

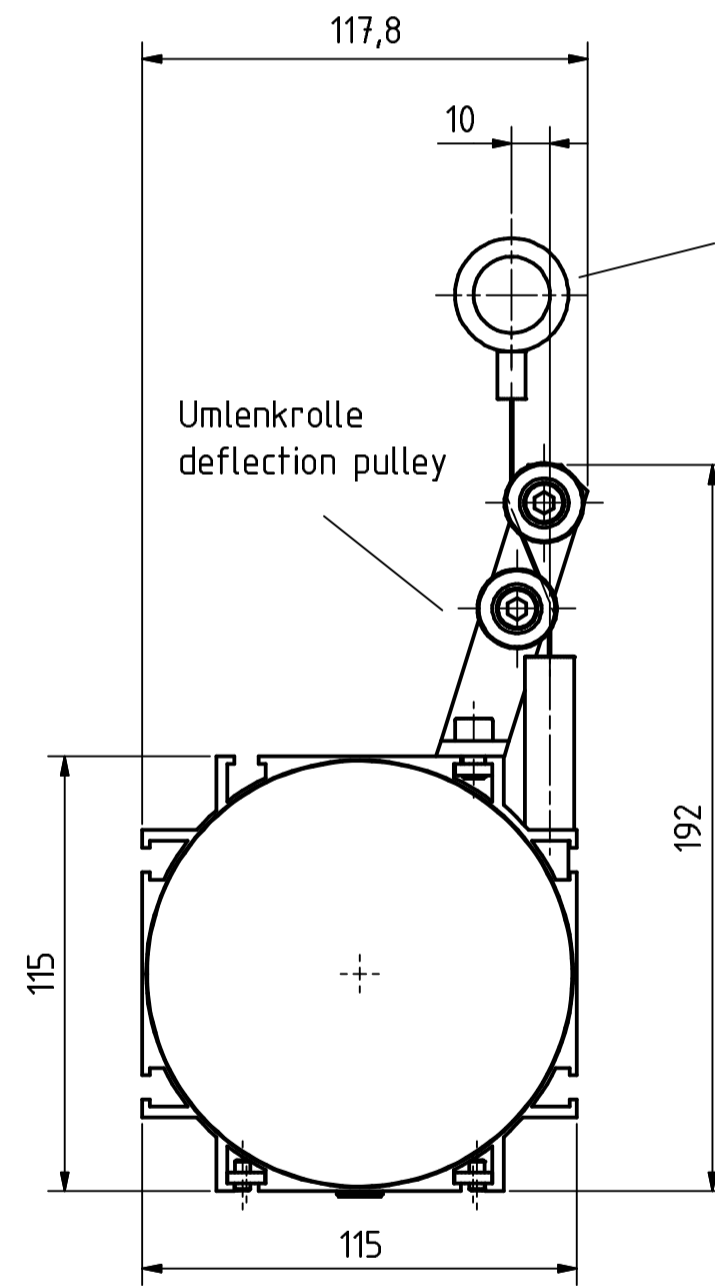
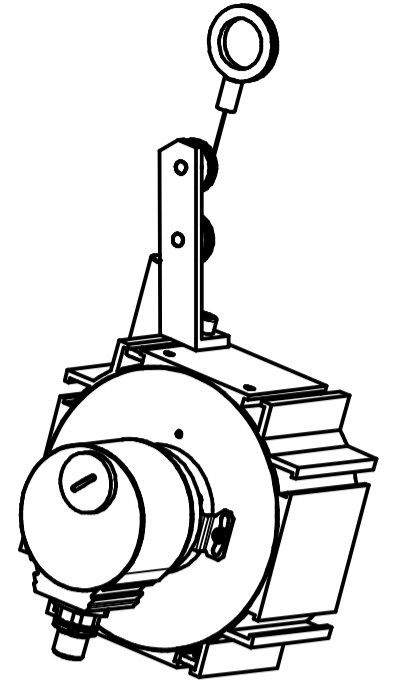
Subject to change.

Montagehinweis  
instruction for installation



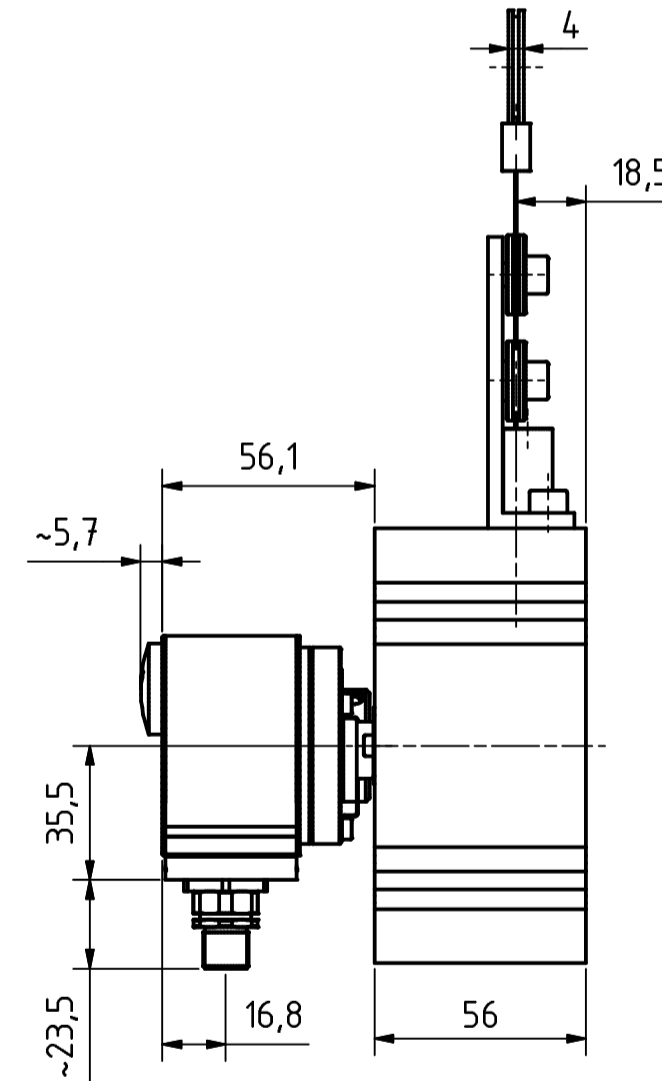
Nutenstein (2x)  
slot nut (2x)

Verschlussstopfen, M20x1.5  
dummy plug, M20x1.5



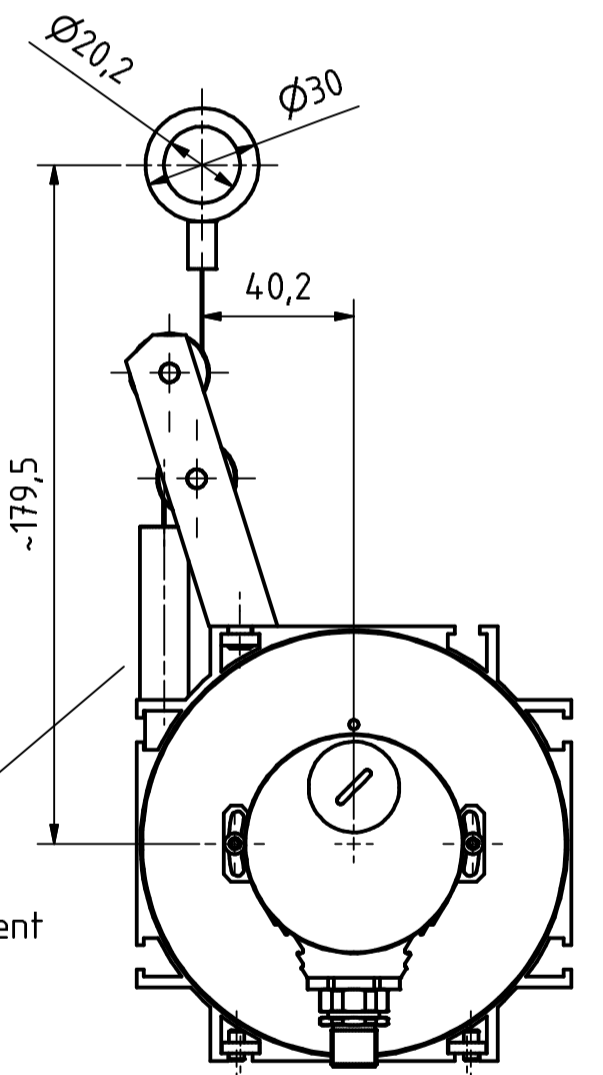
Öse, Messing  
ear, brass

Umlenkrolle  
deflection pulley




5pol. M12 Stecker, a-codiert  
5pin. M12 connector, a-coded

Schlauch, Kautschuk ölresistent  
hose, rubber oil resistant



Artikel-Nr. und Steckerbelegung: siehe Datenblatt  
Article-No. and pin connections: see data sheet

 TR-Electronic GmbH Eglisshalde 6 D-78647 Trossingen phone +49 7425 228.0 www.tr-electronic.de		Maßstab 1:2 DIN A2 Projekt-Nr.:	
Erstellt 19.06.2015 FLAIG		Zeichnungs-Nr. nur für diese Ausführung gültig Drawing-No. only for this type valid	
Bearb. 19.06.2015 FLAIG		CMW-58-M, pull of rope encoder ME, 5m rope	
Gepr. 19.06.2015 NEMECZ		Zeichnungs-NR./Drawing-No.:	
Norm		04-CMW58M-M0076	
www.tr-electronic.de DXF-Info: info@tr-electronic.de		Blatt 1 1 Bl.	
Zust.	Änderungen	Datum	Name

**Cxx-58 CANopen (1x M12 Stecker) Adr.=1/500kBaud/Termi.=ON**

**Allgemeine Hinweise:**

Wenn das Mess-System die letzte Station im CANopen-Segment ist, muss der DIP-Schalter **SW2** für den CAN-Bus-Terminator (Zuschaltung des Abschlusswiderstandes) eingeschaltet werden (**SW2=ON=Default**).  
Sonst muss er ausgeschaltet sein (SW2=OFF).

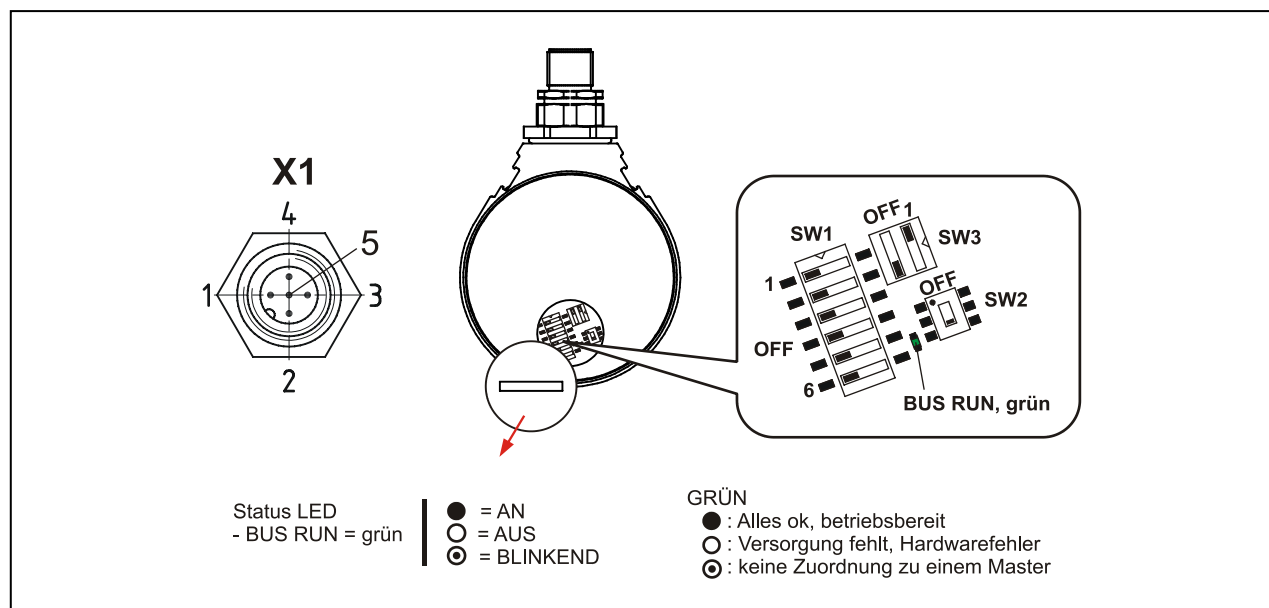
**Für die Installation sind die Hinweise der CANopen Spezifikation „cin DR 303-1“ zu beachten!**

Bei langen Leitungslängen kann die separate Mitführung des CAN\_GND – Signals erforderlich werden. In diesem Fall muss das Gerät entsprechend ausgetauscht werden.

X1	CANopen, M12-Stecker (M12x1-5 pol. A-kodiert)
1	CAN Shield, <b>großflächig auf Steckergehäuse</b>
2	US-Versorgung, 11-27 V DC
3	0V-Versorgung
4	CAN_H
5	CAN_L

SW1 Identifier (ID), Encoderadressierung							Default
DIP-6 = ID 2 <sup>5</sup>	DIP-5 = ID 2 <sup>4</sup>	DIP-4 = ID 2 <sup>3</sup>	DIP-3 = ID 2 <sup>2</sup>	DIP-2 = ID 2 <sup>1</sup>	DIP-1 = ID 2 <sup>0</sup>	Adresse = ID	
off	off	off	off	off	off	1	X
off	off	off	off	off	on	2	
off	off	off	off	on	off	3	
...	...	...	...	...	...	...	...
on	on	on	on	on	off	63	
on	on	on	on	on	on	64	

SW3 Baudrate				Default
DIP-2	DIP-1	Baudrate	Leitungslänge [m]	
off	off	20 kBaud	bis 2500	
off	on	125 kBaud	bis 500	
on	off	<b>500 kBaud</b>	<b>bis 100</b>	X
on	on	1 MBaud	bis 25	



Änderungen vorbehalten / Subject to change

**Cxx-58 CANopen (1x M12 male) Addr.=1/500kbps/Termi.=ON**

**General note:**

If the measuring system is the last station in the CANopen-segment, the DIP switch **SW2** for the CAN-bus terminator (switching-on of the terminal resistance) must be switched on (**SW2=ON=Default**). Otherwise the terminator must be switched off (SW2=OFF).

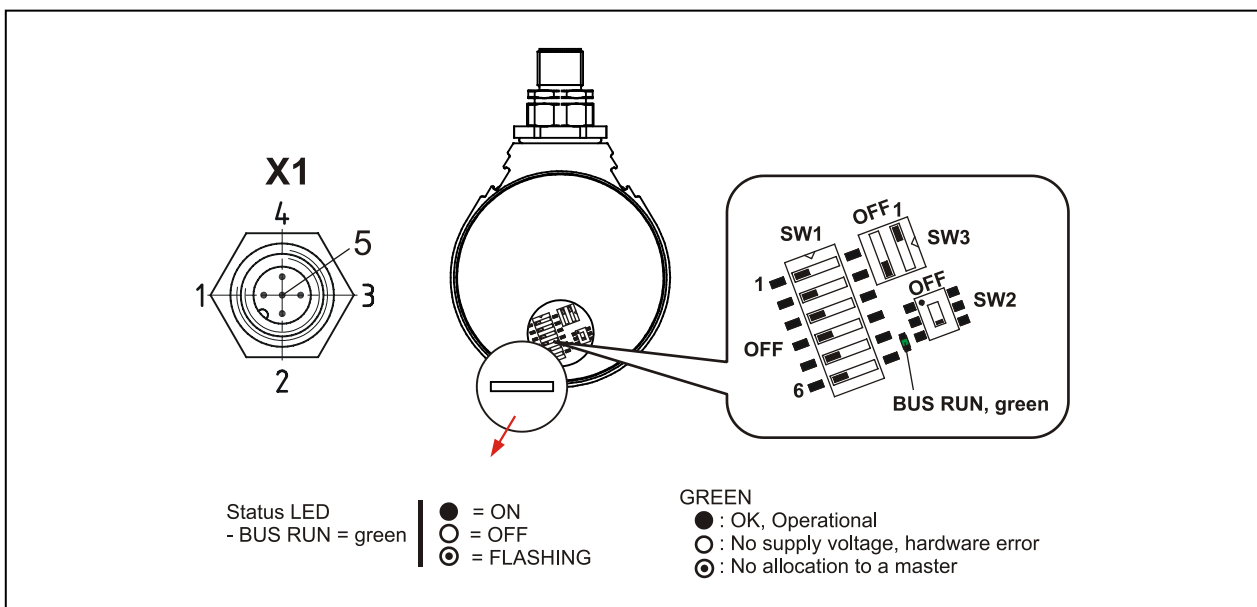
**For installation the references of the CANopen specification "CiA DR 303-1" are to be observed!**

In case of long cable length it can be necessary to connect the signal CAN\_GND separately. In this connection the device must be replaced correspondingly.

X1	CANopen, M12 male (M12x1-5 pol. A-coded)
1	CAN Shield, <b>connect large-area onto connector</b>
2	US-Supply Voltage, 11-27 V DC
3	0V-Supply Voltage
4	CAN_H
5	CAN_L

SW1 Identifier (ID), Encoder addressing							Default
DIP-6 = ID 2 <sup>5</sup>	DIP-5 = ID 2 <sup>4</sup>	DIP-4 = ID 2 <sup>3</sup>	DIP-3 = ID 2 <sup>2</sup>	DIP-2 = ID 2 <sup>1</sup>	DIP-1 = ID 2 <sup>0</sup>	Address = ID	
off	off	off	off	off	off	1	X
off	off	off	off	off	on	2	
off	off	off	off	on	off	3	
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
on	on	on	on	on	off	63	
on	on	on	on	on	on	64	

SW3 Baud rate				Default
DIP-2	DIP-1	Baud rate	Line length [m]	
off	off	20 kbps	up to 2500	
off	on	125 kbps	up to 500	
on	off	<b>500 kbps</b>	<b>up to 100</b>	X
on	on	1000 kbps	up to 25	



Änderungen vorbehalten / Subject to change