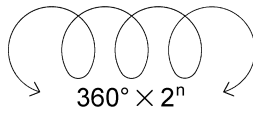
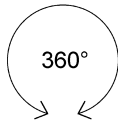
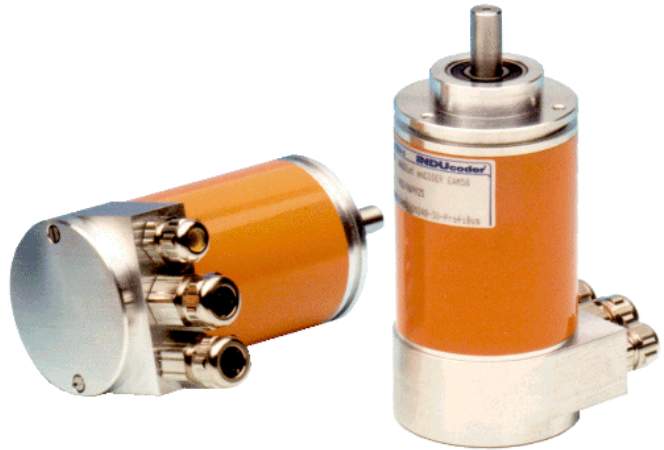


ABSOLut enCODER EAM 58 / EAMS 58 CANBUS CANopen / Device Net

Optischer Absolut-Winkelcodierer,
Single-turn und Multi-turn mit hoher Auflösung

*Codeurs optiques absolues haute résolution
Mono-tour et multi-tour
Standard de l'industrie, taille 58*

Optical absolute multi-turn shaft encoder
of high resolution Industrial standard package size



Auflösung

≤ 65536 Schritte/360° = 16 bit

Meßbereich

Single-turn
1 Umdrehung

Multi-turn
≤ 16384 Umdrehungen = 14 bit

Aufbau/Vorteile

- Solider mechanischer Aufbau
- Schutzart IP 65, IP 66
- SMD-Elektronik
- Elektronische Justage
- Programmierbar
- CANopen / Device Net

Bestellschlüssel

Winkelcodierer Type
Servo-/Klemmflansch
Gerätedurchmesser
Anzahl der Bits
Ausgabe-Code Binär
Speisespannung
CANBUS

Auswahltabelle

Anzahl der Bits

Speisespannung
CANBUS

Résolution

≤ 65536 points/tour = 16 bit

Gamme de mesure

Mono-tour
1 tour

Multi-tour
≤ 16384 tours = 14 bit

Caractéristiques

- *Codeur robuste*
- *Protection de IP 65, IP 66*
- *Électronique incorporée SMD*
- *Réglage électronique*
- *Programmable*
- *CANopen / Device Net*

Tableau des modèles

*Codeur absolu
Face avant
Diamètre de l'appareil
Nb. de bit
Code Binaire nat.
Tension d'alimentation
CANBUS*

Tableau de sélection

Nb. de bit

*Tension d'alimentation
CANBUS*

Resolution

≤ 65536 steps/turn = 16 bit

Measuring range

Single-turn
1 turn

Multi-turn
≤ 16384 turns = 14 bit

Features/Advantages

- Solid mechanical construction
- Protection to IP 65, IP 66
- SMD technology
- Electronic preset
- Programmable
- CANopen / Device Net

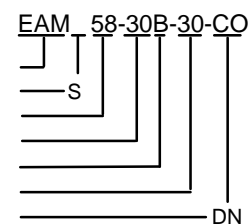
Ordering code

Absolute Shaft Encoder Type
Flange type
Package diameter
No. of bits
Code Binary nat.
Power supply voltage
CANBUS

Selecting table

No. of bits

Power supply voltage
CANBUS



12 = 12 bits x	1 turn
13 = 13 bits x	1 turn
16 = 16 bits x	1 turn
24 = 12 bits x	4096 turns
25 = 13 bits x	4096 turns
28 = 16 bits x	4096 turns
26 = 12 bits x	16384 turns
27 = 13 bits x	16384 turns
30 = 16 bits x	16384 turns

30 = 10...30 VDC
CO = CANopen
DN = Device Net

Technische Daten

Caractéristiques techniques

Technical Data

Mechanische Werte

Drehzahl
Drehmoment
Trägheitsmoment
Wellenbelastung
Lebensdauer der Kugellager
Gewicht

Caractéristiques mécaniques

Vitesse de rotation
Couple
Moment d'inertie
Capacité de charge de l'axe
Durée de service des roulements à billes
Poids

Mechanical data

Rotational speed
Torque
Moment of inertia
Shaft loading
Operational life of ball bearings
Weight

≤ 12000 min⁻¹ (Single-turn)
≤ 6000 min⁻¹ (Multi-turn)
≤ 3 Ncm
≤ 30 g cm²
40 N axial, 110 N radial
> 2 x 10⁵ h (1000 min⁻¹, EAMS 58)
> 1 x 10⁵ h (1000 min⁻¹, EAM 58)
≤ 0,7 kg

Umgebungsbedingungen

Vibration
Beschleunigung
Arbeitstemperatur
Lagertemperatur
Luftfeuchtigkeit
Schutzart

Conditions ambiantes

Vibrations
Chocs
Température de travail
Température de stockage
Humidité de l'air
Protection

Environmental conditions

Vibration
Shock
Operating temperature
Storage temperature
Atmospheric humidity
Protection

100 ms⁻² (10 ... 1000 Hz)
300 ms⁻² (11 ms)
-40 ... +85°C
-40 ... +85°C
< 98% r.h.
IP 65 (EN 60529)
IP 66 optional

Elektrische Werte

Optisch, berührungslos
Sender, Infrarot
Empfänger
Abtastfrequenz LSB
Messgenauigkeit

Caractéristiques électriques

Optique, sans contact
Émetteur, infrarouge
Récepteur
Fréquence de balayage LSB
Exactitude de mesure

Electrical data

Optical, without contact
Transmitter, infrared
Receiver
Scanning frequency LSB
Measurement accuracy

LED
Photo-Array
800 kHz
± ½ LSB (12 bit)
± 1 LSB (13 bit)
± 2 LSB (16 bit)
V_{cc} = 10...30 VDC
≤ 100 mA (V_{cc} = 24 V)

Elektrische Anschlüsse

CANBUS

Schnittstelle
Taktfrequenz

Connections électriques

CANBUS

Interface
Fréquence de balayage

Electrical connections

CANBUS

Interface
Frequency

CAN Transceiver ISO/DIS 11898
20 kBaud ... 1 MBaud (CANopen)
125, 250, 500 kBaud (Device Net)

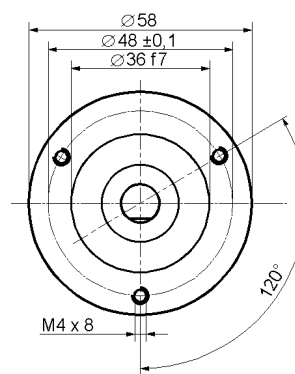
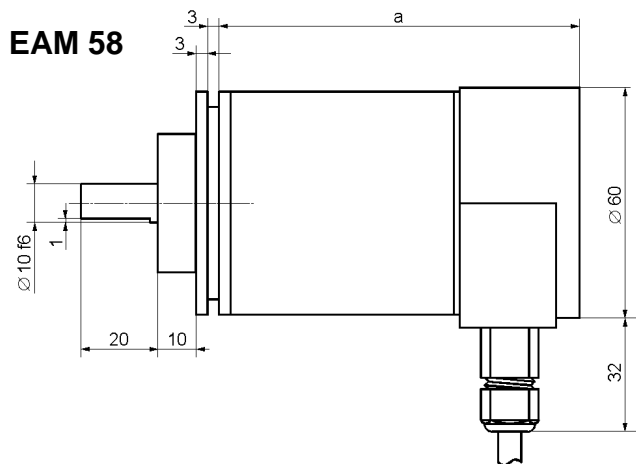
Massbild

Encombrement

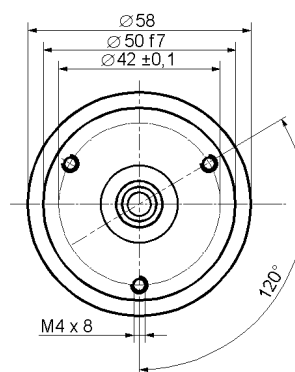
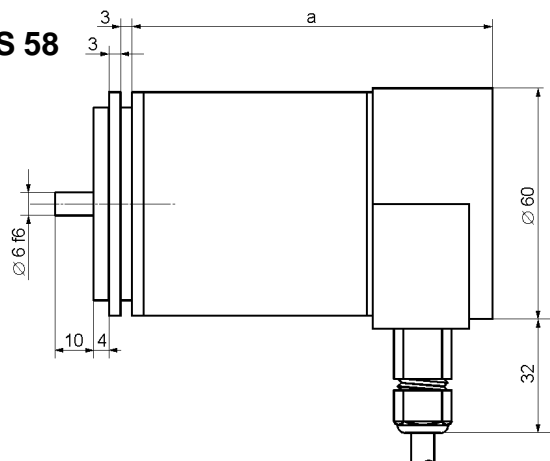
Outline drawing

mm

EAM 58



EAMS 58



a = 76 mm for Single-turn, 86 mm for Multi-turn