Teknik veri sayfası
Enkoder Serisi Bilgileri
Ürün no.: 91000310
EM-M 058 BB IO



Şekil farklılık gösterebilir

İçerik

- Teknik veriler
- Ürün anahtarı

Serisi	EM-M 058 BB
Temel Prensip	mutlak
Çalışma Prensibi	manyetik
Flanş Çapı	Ø 58 mm
Flanş Tipi	Dummy
Dolu Şaft/İçi Boş Şaft	İçi boş mil
Şaft Çapı	Ø 10 mm
	Ø 12 mm
	Ø 14 mm
	Ø 15 mm
	Ø 6 mm
	Ø 7 mm
	Ø 8 mm
Besleme Gerilimi	18 ... 30 V DC
Çıkış Devresi	M12A05
	M12R05
Darbe Sayısı	1 ... 16 Bit / 0 ... 43 Bit

Teknik veriler

Encoder EM-M 036 BB IO

Mechanical Data

Flange	hollow shaft (blind-bored)
Flange material	aluminum
Housing material	stainless steel
- 1. Spring plate compensation	axial: ± 0.2 mm [0.0079"], radial: ± 0.1 mm [0.0039"]
Flange diameter	Ø 36 mm [Ø 1.417"]

Shaft(s)

Starting torque	approx. 0.3 Ncm [0.425 in-ozf] at ambient temperature
Shaft	Ø 6 mm [Ø 0.236"]
Insertion depth min.	8 mm [0.315"]
Insertion depth max.	17 mm [0.669"]
Max. Permissible shaft loading radial	80 N [8.157 kp]
Max. Permissible shaft loading axial	50 N [5.098 kp]
Shaft	Ø 6.35 mm [Ø 1/4"] Order No: 2Z
Insertion depth min.	8 mm [0.315"]
Insertion depth max.	17 mm [0.669"]
Max. Permissible shaft loading radial	80 N [8.157 kp]
Max. Permissible shaft loading axial	50 N [5.098 kp]

Bearings

Bearings type	2 precision ball bearings
Nominale service life	1.4 x 10'8 revs. at 100 % rated shaft load 2 x 10'9 revs. at 40 % rated shaft load 1.7 x 10'10 revs. at 20 % rated shaft load
Max. operating speed	12000 rpm

Machinery Directive: basic data safety integrity level

$MTTF_d$	1300 a
Mission time (TM)	20 a
Nominale service life (L10h)	1.7 x 10'10 revs. at 20 % rated shaft load and 12000 rpm
Diagnostic coverage (DC)	0 %

Electrical Data

Power supply/Current consumption	18 VDC up to 30 VDC: typ. 30 mA
Power consumption	max. 0.6 W
Operating principle	magnetic

Sensor data

Single-turn technology	innovative hall sensor technology
Single-turn resolution	65,536 steps/360° (16 bit)
Single-turn accuracy	± 0.0878° (≤ 12 bit)
Single-turn repeat accuracy	± 0.0878° (≤ 12 bit)
Internal cycle time	250 µs
Multi-turn technology	Wiegand wire technology no battery and no gear.
Multi-turn resolution	up to 32 bit with high precision value up to 43 bit.

Environmental data

ESD (DIN EN 61000-4-2):	4 kV
Burst (DIN EN 61000-4-4):	2 kV
Includes EMC:	DIN EN 61000-6-2 DIN EN 61326-2-3 DIN EN 61131-9
Vibration: (DIN EN 60068-2-6)	300 m/s^2 (10 Hz up to 2000 Hz)
Shock: (DIN EN 60068-2-27)	5000 m/s^2 (6 ms)
Electrial Safety:	DIN EN 61010-1 (VDE 0411-1) / IEC 61010-1 / UL 61010-1 / CSA C22.0 No. 61010-1-12
Turn on time:	<1 s

Duty information

Customs tariff number:	90318020
Country of origin:	Germany

Interface

Interface:	IO-Link Version: V1.1.4
Protocol:	• 2.8 Adjustable Switching Sensor, multi channel • 4.2.1 Measuring and Switching Sensor, high resolution, 1 channel • 4.2.2 Measuring and Switching Sensor, high resolution, 2 channel
Baud rate:	COM 3 230.4 kBit/s
Advice:	The standard settings and customer-specific adjustments in the parameterisation can be set using ISDUs, e.g. scaling, direction of rotation, etc.

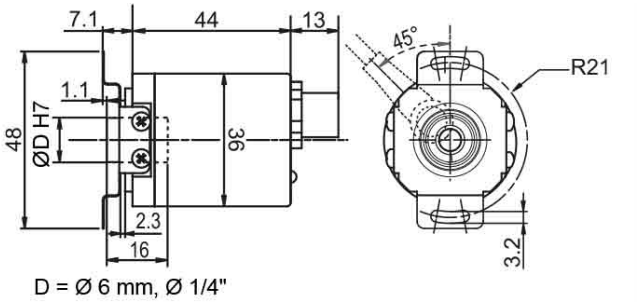
General Data

Weight	approx. 110 g [3.88 oz]
Connections	connector outlet
Protection rating (EN 60529)	Housing: IP65, IP67; shaft sealed: IP65
Operating temperature	-40 °C up to +85 °C [-40 °F up to +185 °F]
Storage temperature	-40 °C up to +100 °C [-40 °F up to +212 °F]

Teknik veriler

Encoder EM-M 036 BB IO

Connector, M12x1 M12A05, axial, 5-pin



D = Ø 6 mm, Ø 1/4"

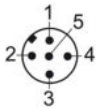
All dimensions in mm

IB5 → M12A05

Description

M12A05	axial, 5-pin, shield connected to encoder housing

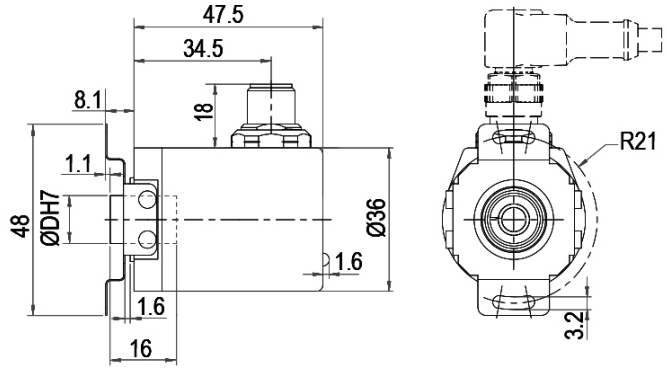
Assignments

	M12A05
	
(+) Vcc	1
GND	3
CANHigh	4
CANLow	2
CANGND shield	5

Teknik veriler

Encoder EM-M 036 BB IO

Connector, M12x1 M12R05, radial, 5-pin



D = Ø 6 mm, Ø 1/4"

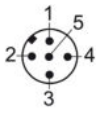
All dimensions in mm

IC5 → M12R05

Description

M12R05	radial, 5-pin, shield connected to encoder housing

Assignments

	M12R05
	
(+) Vcc	1
GND	3
CANHigh	4
CANLow	2
CANGND shield	5

Teknik veriler

Encoder EM-M 036 BB IO

Options

Low-friction bearings	Order key
The encoder EM-M 036 BB IO is also available as a particularly smooth- running low-friction encoder. The starting torque is thereby changed to ≤ 0.25 Ncm [0.354 in-ozf] and the protection class at the shaft input to IP50.	LB

Teknik veriler

Encoder EM-M 036 BB IO

Example Order No.	Type	Your encoder
EM50 036 BB	EM-M 036 BB	EM50 036 BB

	Shaft	Order key
06	Ø 6 mm [Ø 0.236"]	06
	Ø 6.35 mm [Ø 1/4"] Order No: 2Z	2Z

	Single-turn Resolution	Order key
16	Single-turn resolution 1 bit up to 16 bit: (e. G. 6 bit)	16

	Multi-turn Resolution	Order key
43	Multi-turn resolution: (examples) 6 bit = 6 43 bit = 43	16

	Data protocol	Order key
42	IO-Link	42

	Power supply	Order key
2	18 V up to 30 V (standard)	2

	Galvanic isolation	Order key
0	no	0

	Electrical connections	Order key
	Connector:	
M12A05	sensor-connector, M12x1, 5-pin, axial, shield connected to encoder housing	M12A05
	sensor-connector, M12x1, 5-pin, radial, shield connected to encoder housing	M12R05

	Options	Order key
	Without option	Empty
	Low-friction bearings	LB

Ürün anahtarı

Leuze

Parça atama: **EABB CCCDDEE FFFFFF GHHJKK LLMNNOPPP RR**

A	**Enkoder tipi** I: Artımlı S: Mutlak, tek turlu M: Mutlak, çok turlu
BB	**Seri** 10: Giriş 30: Temel 50: Uzatılmış 70: Gelişmiş
CCC	**Flanş çapı** 024: 24 mm 036: 36 mm 058: 58 mm 063: 63 mm 067: 67 mm 070: 70 mm 080: 80 mm 100: 100 mm 115: 115 mm
DD	**Flanş tipi** BB: Kör delikli içi boş şaft CC: Sıkıştırma flanşı (kompakt tasarım) CF: Sıkıştırma flanşı (gıda ve içecek) CH: Sıkıştırma flanşı (ağır hizmet tipi) CL: Sıkıştırma flanşı HI: İçi boş şaft (İzole edilmiş) HO: İçi boş şaft HT: İçi boş şaft (özel tork desteği) RC: Yuvarlak flanş (36/40 sıkıştırma flanşı, 58 – 6 mm şaftlı) RE: Yuvarlak flanş (genişletilmiş delikler) RN: Yuvarlak flanş SC: Stator soketi SF: Vidalı flanş (53 Sıkıştırmalı flanş, 58 Gıda ve içecek) SI: Servo flanşı (artırılmış mil yükü ve IP koruma sınıfı) SQ: Kare flanş SR: Vidalı flanş (36/40 sıkıştırmalı flanş, 58 korozyona dayanıklı) SY: Senkron (artımlı), Servo (36), Senkron (58) (mutlak) TM: Hızölçer (115, 1 mm şaftlı, 58 motor geri beslemeli) TS: Hızölçer (10 mm şaft)
EE	**Şaft/Delik Çapı** 06: 6 mm 07: 7 mm 08: 8 mm 08: 8 mm 10: 10 mm 11: 11 mm 12: 12 mm 14: 14 mm 15: 15 mm 06-72: Delik/kör delik delme (6 ... 72 mm)
FFFFFF	**Sinyal/Çözünürlük** Axxxxx: A Bxxxxx: AB Nxxxxx: ABN P16384: Programlanabilir xx: Tek turlu, 1 ... 16 Bit xx: Çok turlu, 0 ... 43 Bit (Tek turluda 00)
G	**Galvanik izolasyon (yalnızca mutlak)** 0: Yok 1: Birlikte
HH	**Gerilim beslemesi (yalnızca mutlak)** 0: 10 ... 32 V DC/galvanik izolasyonlu 1: 4,75 ... 5,5 V DC 2: 18 ... 30 V DC
J	**Çalışma prensibi** M: Manyetik O: Optik P: Optik interpolasyonlu

Ürün anahtarı

KK	**Arayüz** 01: RS485 06: SSI binär 07: SSI Gray 08: Ethernet universal 35: CANopen 38: EtherCAT 42: IO-Link 48: PROFINET 58: EtherNET/IP 68: CANopen lift 78: CAN SAE J1939
LL	**Elektrik bağlantısı** M08: Yuvarlak konnektör M8 M12: Yuvarlak konnektör M12 M16: Yuvarlak konnektör M16 M23: Yuvarlak konnektör M23 M12BC: Motor kaputu konektörü
M	**Kablo çıkışı** A: Eksenel R: Radyal T: Teğetsel
NN	**Kutup sayısı** xx: Kutup sayısı
O	**Ekran bağlantısı (2 m kablo) (isteğe bağlı)** C: Bağlı N: Bağlı değil
PPP	**Kablo uzunluğu** xxx: Kablo uzunluğu (in dm)

Uyarı

↳ Mevcut tüm cihaz modellerine sahip bir listeyi, www.leuze.com Leuze internet sitesinde bulabilirsiniz.

Leuze