Scheda tecnica dati
Informazioni sulla serie di encoder
Cod. art.: 91000220
EM-M 058 SR SSI



La figura può variare

Contenuto

- Dati tecnici
- Codice articoli

Serie	EM-M 058 SR
Principio di base	assoluto
Principio di funzionamento	magnetico
Diametro della flangia	Ø 58 mm
Tipo di flangia	Flangia di serraggio
Albero pieno/Albero cavo	Albero pieno
Dametro dell'albero	Ø 10 mm
Tensione di alimentazione	4,75 ... 32 V DC
Circuito di uscita	M12A08S
	M12R08S
Numero di impulsi	1 ... 16 Bit / 0 ... 43 Bit

Dati tecnici

Encoder EM-M 058 SR SSI

Mechanical Data

Flange	clamping flange
Flange material	Aluminum, anodized natur
Housing material	steel case chrome-plated, magnetic shielding
Flange diameter	Ø 58 mm [Ø 2.283"]

Shaft(s)

Shaft material	stainless steel
Starting torque	approx. 1 Ncm [1.416 in-ozf] at ambient temperature

Shaft	Ø 10 mm [Ø 0.394"]
Shaft length	L: 18 mm [0.709"]
Max. Permissible shaft loading radial	100 N [10.197 kp]
Max. Permissible shaft loading axial	100 N [10.197 kp]

Bearings

Bearings type	2 precision ball bearings
Nominale 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
Nominale 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	4,75 VDC up to 32 VDC: typ. 50 mA
Power consumption	max. 0.5 W
Power supply/Current consumption	4,75 VDC up to 5,5 VDC: typ. 80 mA
Power consumption	max. 0.44 W
Operating principle	magnetic

Sensor data

Single-turn technology	innovative hall sensor technology
Single-turn resolution	up to 65,536 steps/360° (16 bit)
Single-turn accuracy	± 0.0878° (≤ 12 bit)
Single-turn repeat accuracy	± 0.0878° (≤ 12 bit)
Internal cycle time	≤ 600 µs
Multi-turn technology	Wiegand wire technology no battery and no gear.
Multi-turn resolution	up to 43 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 DIN EN 61326-1
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:	according DIN VDE 0160
Turn on time:	<1,5 s

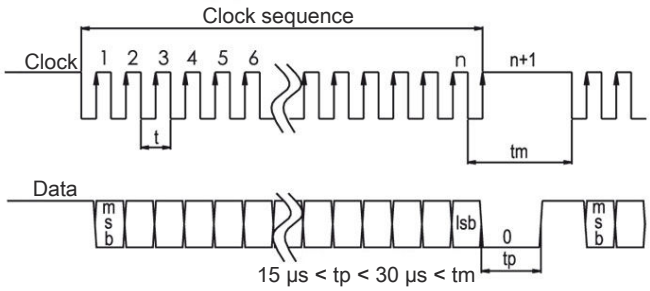
Duty information

Customs tariff number:	90318020
Country of origin:	Germany

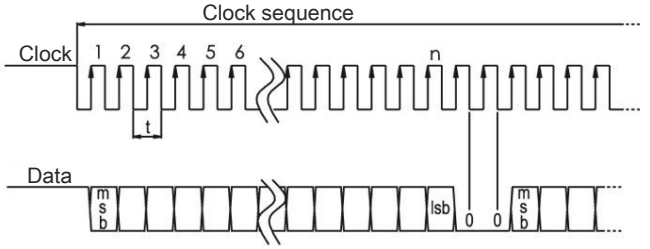
Interface

Interface:	SSI
Clock input:	via opto-coupler; I > 1.6 mA; U > 2.2 V
Clock frequency:	100 kHz up to 500 kHz, up to 2 MHz on request
Data output:	RS485/RS422 compatible
Output code:	gray or binary
SSI output:	Angular-/position value
Parity bit:	optional (even/odd)
Error bit:	optional
Turn on time:	<1,5 s
Configuration inputs Positive direction of counting: (View on shaft)	DIR = GND -> cw DIR = +UB -> ccw
Set to zero:	Set: Preset = +UB for 2 s Deaktivate: Preset = GND

Transmission protocoll SSI Single transmission:



Transmission protocol SSI Multipath transmission:



Dati tecnici

Leuze

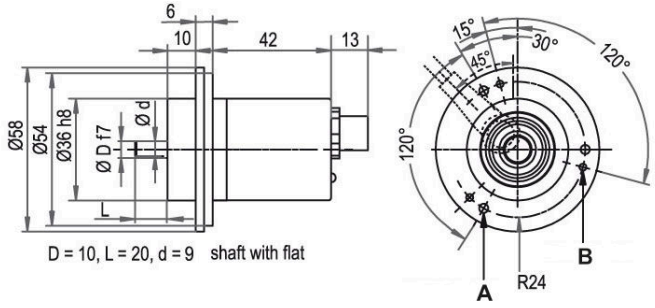
Encoder EM-M 058 SR SSI

LED-behaviour:	
At Start / while booting:	- red gleam (< 2,3 s)
Malfunction:	- constant red gleam (> 2,3 s)
Normal function:	- constant green gleam
No supply:	- no gleam

General Data

Weight	approx. 200 g [7.055 oz]
Connections	connector outlet
Protection rating (EN 60529)	IP67+IP69K all around
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]

Connector, M12x1 M12A08S, axial, 8-pin



A M4x0.7 - 6H
B M3x0.5 - 6H

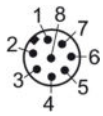
All dimensions in mm

CB8 → M12A08S

Description

M12A08S axial, 8-pin, shield connected to encoder housing

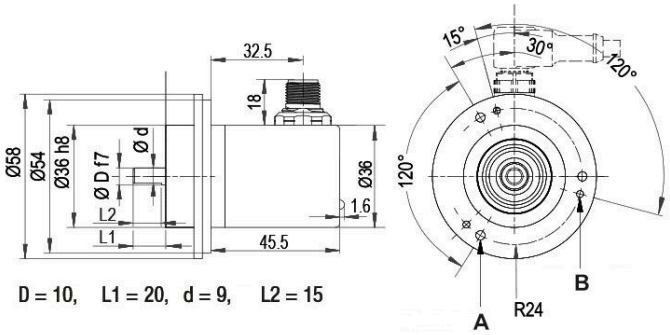
Assignments

	M12A08S
	
GND	1
(+) Vcc	2
SSI CLK+	3
SSI CLK-	4
SSI DATA+	5
SSI DATA-	6
PRESET	7
DIR	8
Shield	housing

Dati tecnici

Encoder EM-M 058 SR SSI

Connector, M12x1 M12R08S, radial, 8-pin



A M4x0.7 - 6H
B M3x0.5 - 6H

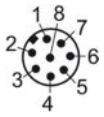
All dimensions in mm

CC8 → M12R08S

Description

M12R08S	radial, 8-pin, shield connected to encoder housing

Assignments

	M12R08S
	
GND	1
(+) Vcc	2
SSI CLK+	3
SSI CLK-	4
SSI DATA+	5
SSI DATA-	6
PRESET	7
DIR	8
Shield	housing

Dati tecnici

Encoder EM-M 058 SR SSI

Example Order No.	Type	Your encoder
EM50 058 SR	EM-M 058 SR	EM50 058 SR

	Shaft	Order key
10	Ø 10 mm [Ø 0.394"]	10

	Single-turn Resolution	Order key
12	Single-turn resolution 1 bit up to 16 bit, recommended min. 6 bit (e. G. 12 bit)	12

	Multi-turn Resolution	Order key
12	Multi-turn up to 43 bit (e. G. 12 bit) No Multi-turn = 00	12

	Data protocol	Order key
06	SSI binary	06
	SSI gray 07	

	Power supply	Order key
0	4.75 V up to 32 V (standard)	0
	4.75 V up to 5.5 V	1

	Galvanic isolation	Order key
1	yes	1

	Electrical connections	Order key
	Connector:	
M12A08S	sensor-connector, M12x1, 8-pin, axial, shield connected to encoder housing	M12A08S
	sensor-connector, M12x1, 8-pin, radial, shield connected to encoder housing	M12R08S

Codice articoli

Denominazione articolo: **EABB CCCDDEE FFFFFF GHHJKK LLMNNOPPP RR**

A	**Tipo di econder rotativo** I: Incrementale S: Assoluto, monogiro M: Assoluto, multigiro
BB	**Serie** 10: Entry 30: Basic 50: Extended 70: Advanced
CCC	**Diametro della flangia** 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	**Tipo di flangia** BB: Albero cavo con foro cieco CC: Flangia di serraggio (forma costruttiva compatta) CF: Flangia di serraggio (alimenti e bevande) CH: Flangia di serraggio (versione per carichi pesanti) CL: Flangia di serraggio HI: Albero cavo (isolato) HO: Albero cavo HT: Albero cavo (supporto di coppia speciale) RC: Flangia circolare (36/40 flangia di serraggio, 58 con albero da 6 mm) RE: Flangia circolare (fori ampliati) RN: Flangia circolare SC: Accoppiamento statore SF: Flangia a vite (53 flangia di serraggio, 58 alimenti e bevande) SI: Servoflangia (carico sull'albero maggiorato e protezione IP) AQ: Flangia quadrata SR: Flangia a vite (36/40 flangia di serraggio, 58 resistente alla corrosione) SY: Sincro (incrementale), Servo (36), Sincro (58) (assoluto) TM: Tachimetro (115 con albero da 1 mm, 58 feedback motore) TS: Tachimetro (albero da 10 mm)
EE	**Diametro dell'albero/del foro** 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: Foro cavo/foro cieco (6 ... 72 mm)
FFFFFF	**Segnale/risoluzione** Axxxxx: A Bxxxxx: AB Nxxxxx: ABN P16384: Programmabile xx: Monogiro, 1 ... 16 Bit xx: Multigiro, 0 ... 43 Bit (00 con monogiro)
G	**Separazione galvanica (solo valore assoluto)** 0: senza 1: con
HH	**Alimentazione di tensione (solo valore assoluto)** 0: 10 ... 32 V DC/con separazione galvanica 1: 4,75 ... 5,5 V DC 2: 18 ... 30 V DC
J	**Principio di funzionamento** M: magnetico O: Ottico P: interpolato otticamente

Codice articoli

KK	**Interfaccia** 01: RS485 06: SSI binario 07: SSI Gray 08: Ethernet universale 35: CANopen 38: EtherCAT 42: IO-Link 48: PROFINET 58: EtherNet/IP 68: CANopen lift 78: CAN SAE J1939
LL	**Collegamento elettrico** M08: Connettore circolare M8 M12: Connettore circolare M12 M16: Connettore circolare M16 M23: Connettore circolare M23 M12BC: Connettore bus con calotta.
M	**Uscita cavi** A: Assiale R: Radiale T: Tangenziale
NN	**Numero di poli** xx: Numero di poli
O	**Connettore schermato (cavo da 2 m) (opzionale)** C: collegato N: non collegato
PPP	**Lunghezza del cavo** xxx: Lunghezza del cavo (in dm)

Avviso



↳ È possibile trovare una lista con tutti i tipi di apparecchi disponibili sul sito di Leuze all'indirizzo www.leuze.com.

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