

Teknik veri sayfası Enkoder Serisi Bilgileri

Ürün no.: 90000350

EI30-P 058 CA

İçerik

- Teknik veriler
- Ürün anahtarı



Şekil farklılık gösterebilir

Enkoder_Serisi	EI 058 CA
Enkoder_Temel_Prensip	artımlı
Enkoder_Çalışma_Prensibi	optik interpolasyonlu
Enkoder_Flanş_Çapı	Ø 58 mm
Enkoder_Dolu Şaft/İçi Boş Şaft	İçi boş mil
Enkoder_Şaft_Çapı	Ø 10 mm
	Ø 6 mm
	Ø 8 mm
Enkoder_Besleme_Gerilimi	10 ... 30 V DC
	4,75 ... 5,5 V DC
	5 ... 30V DC
Enkoder_Çıkış_Devresi	1 Vss Sin/Cos
	HTL
	HTL, inv.
	TTL
Enkoder_Darbe_Sayısı	TTL, RS422 uyumlu, inv.
	10000 I/U
	10240 I/U
	12000 I/U
	12500 I/U
	1440 I/U
	15000 I/U
	16384 I/U
	20000 I/U
	20480 I/U
	25000 I/U
	2880 I/U
	3000 I/U
	3600 I/U
	4000 I/U
	5760 I/U
	6000 I/U
	7200 I/U
	7500 I/U
	8000 I/U
	9182 I/U

Teknik veriler

Encoder EI30 P 058 CA

Resolution

Pulses per revolution PPR	up to 25000 PPR
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Mechanical Data

Flange	clamping flange
Flange material	aluminum
Housing material	die cast aluminum, powder coated
Flange diameter	Ø 58 mm [Ø 2.283"]
Cam mounting	pitch 69 mm [2.717 inches]

Shaft(s)

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

Shaft	Ø 6 mm [Ø 0.236"]
Shaft length	L: 10 mm [0.394"]
Max. Permissible shaft loading radial	220 N [22.433 kp]
Max. Permissible shaft loading axial	120 N [12.236 kp]

Shaft	Ø 7 mm [Ø 0.276"]
Shaft length	L: 19 mm [0.748"]
Max. Permissible shaft loading radial	80 N [8.157 kp]
Max. Permissible shaft loading axial	50 N [5.098 kp]

Shaft	Ø 8 mm [Ø 0.315"]
Shaft length	L: 20 mm [0.787"]
Max. Permissible shaft loading radial	220 N [22.433 kp]
Max. Permissible shaft loading axial	120 N [12.236 kp]

Shaft	Ø 9.525 mm [Ø 3/8"] Order No: 4Z
Shaft length	L: 22.3 mm [0.878"]
Max. Permissible shaft loading radial	220 N [22.433 kp]
Max. Permissible shaft loading axial	120 N [12.236 kp]

Shaft	Ø 10 mm [Ø 0.394"]
Shaft length	L: 20 mm [0.787"]
Max. Permissible shaft loading radial	220 N [22.433 kp]
Max. Permissible shaft loading axial	120 N [12.236 kp]

Advice	Ø 12 mm [0.472"] on request
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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 11 x 10 ¹¹ revs. at 20 % rated shaft load
Max. operating speed	8000 rpm

Machinery Directive: basic data safety integrity level

MTTF _d	200 a
Mission time (TM)	25 a
Nominale service life (L10h)	1 x 10 ¹¹ revs. at 20 % rated shaft load and 8000 rpm
Diagnostic coverage (DC)	0 %

Electrical Data

Power supply/Current consumption	4,75 VDC up to 5,5 VDC: typ. 70 mA (100 mA only C3, D3)
Power supply/Current consumption	5 VDC up to 30 VDC: typ. 70 mA
Power supply/Current consumption	10 VDC up to 30 VDC: typ. 70 mA (100 mA only C2, C4, D4)
Operating principle	optical
Output circuit	TTL TTL, RS422 compatible, inv. HTL HTL, inv. 1 Vpp sin/cos
Pulse frequency	TTL ≤ 5000 ppr: max. 200 kHz HTL ≤ 5000 ppr: max. 200 kHz TTL more than 1200 ppr: max. 2 MHz HTL more than 1200 ppr: max. 600 kHz 1 Vpp sin/cos: max. 100 kHz
Channels	B N and inverted signals
Load	max. 40 mA / channel @ 1 Vpp sin/cos: min. 120 Ohm
Circuit protection	circuit type C4, C6, D4, D6 only

Accuracy

Phase offset	90° ± max. 7.5 % of the period duration
pulse-/pause-ratio	≤5000 ppr: 50 % ± max. 7 % Output circuits C2, C3, C4, D3, D4: 50 % ± max. 10 %

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
Vibration: (DIN EN 60068-2-6)	50 m/s ² (10 Hz up to 2000 Hz)
Shock: (DIN EN 60068-2-27)	1000 m/s ² (6 ms)
Electrial Safety:	according DIN VDE 0160

Duty information

Customs tariff number:	90318020
Country of origin:	Germany

Teknik veriler

Encoder EI30 P 058 CA

General Data

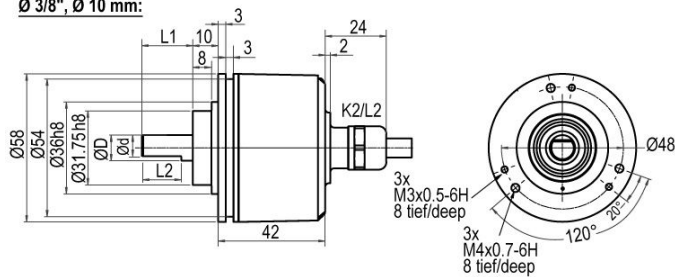
Weight	approx. 250 g [8.818 oz]
Connections	cable or connector outlet
Protection rating (EN 60529)	Housing: IP65, IP67; shaft sealed: IP65
Operating temperature	Connector: -40 °C up to +85 °C, Cable: -20 °C up to +80 °C (Option LT: -40 °C up to +85 °C). Connector: -40 °F up to +185 °F, Cable: -4 °F up to +176 °F, Option LT: -40 °F up to +185 °F 1 Vpp: -10 °C up to +70 °C [+14 °F up to +158 °F]

General Data

Storage temperature	Connector: -40 °C up to +85 °C, Cable: -30 °C up to +80 °C (Option LT: -40 °C up to +85 °C) Connector: -40 °F up to +185 °F, cable: -22 °F up to +176 °F, (Option LT: -40 °F up to +185 °F)
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Cable connection A-N, A-C, axial, with 2 m cable

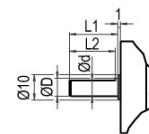
Ø 3/8", Ø 10 mm:



D = 9.525h7 [0.375] L1 = 22.3 [0.878] d = 9 [0.345] L2 = 20.3 [0.799]
D = 10f7 L1 = 20 d = 9 L2 = 15

All dimensions in mm

Ø 6 mm, Ø 7 mm, Ø 8 mm:



D = 6f7 L1 = 10 d = 5.5 L2 = 9
D = 7f7 L1 = 19
D = 8h8 L1 = 19 d = 7.5 L2 = 15

Description

N inv. poss.

A-N	axial, shield not connected	•
A-C	axial, shield connected to encoder housing	•

Assignments

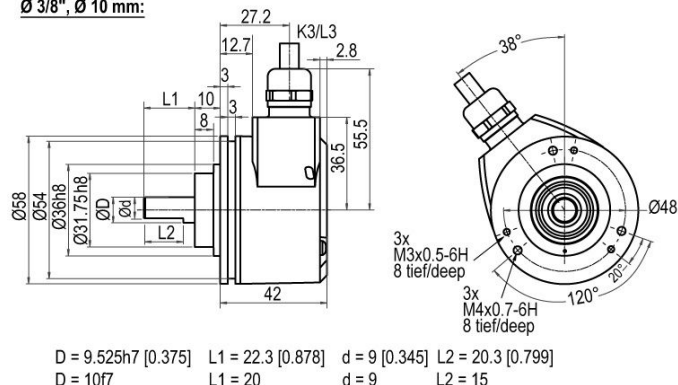
	A-N, A-C	A-N, A-C	A-C
Circuit	C3, C4, C5, C6, C7	D3, D4, D5, D6, C1, C2, D7	D8
GND	WH	WH	WH
(+) Vcc	BN	BN	BN
A	GN	GN	GN
B	YE	YE	GY
N	GY	GY	–
–	–	–	–
A inv.	–	RD	YE
B inv.	–	BK, (BU at LT)	PK
N inv.	–	VT	–
Shield	flex	flex	flex

Teknik veriler

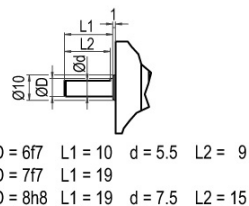
Encoder EI30 P 058 CA

Cable connection R-N, R-C, radial, with 2 m cable

Ø 3/8", Ø 10 mm:



Ø 6 mm, Ø 7 mm, Ø 8 mm:



All dimensions in mm

Description

N inv. poss.

R-N	radial, shield not connected	•
R-C	radial, shield connected to encoder housing	•

Assignments

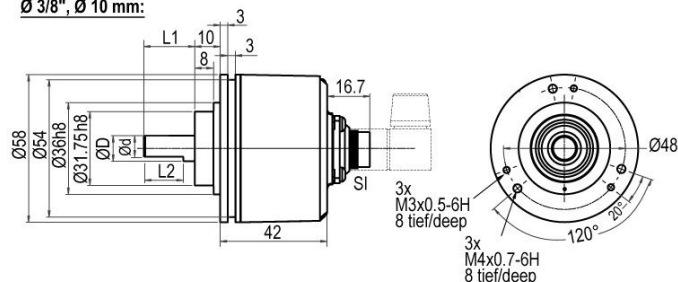
	R-N, R-C	R-N, R-C	R-C
Circuit	C3, C4, C5, C6, C7	D3, D4, D5, D6, C1, C2, D7	D8
GND	WH	WH	WH
(+) Vcc	BN	BN	BN
A	GN	GN	GN
B	YE	YE	GY
N	GY	GY	–
–	–	–	–
A inv.	–	RD	YE
B inv.	–	BK, (BU at LT)	PK
N inv.	–	VT	–
Shield	flex	flex	flex

Teknik veriler

Encoder EI30 P 058 CA

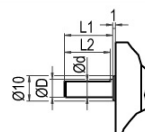
Connector (M16x0.75) A, axial, 5-, 6-, 8-, 12-pin

Ø 3/8", Ø 10 mm:



D = 9.525h7 [0.375] L1 = 22.3 [0.878] d = 9 [0.345] L2 = 20.3 [0.799]
D = 10f7 L1 = 20 d = 9 L2 = 15

Ø 6 mm, Ø 7 mm, Ø 8 mm:



D = 6f7 L1 = 10 d = 5.5 L2 = 9
D = 7f7 L1 = 19
D = 8h8 L1 = 19 d = 7.5 L2 = 15

All dimensions in mm

Description

N inv. poss.

A5	axial, 5-pin, Connector connected to encoder housing	—
A6	axial, 6-pin, Connector connected to encoder housing	—
A8	axial, 8-pin, Connector connected to encoder housing	•
A12	axial, 12-pin, Connector connected to encoder housing	•

Assignments

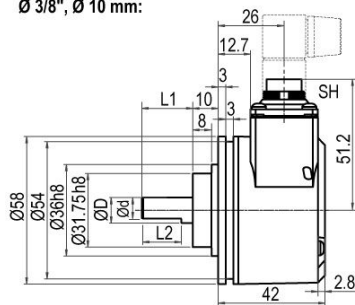
	A5 5-pin	A6 6-pin	A8 8-pin	A8 8-pin	A12 12-pin	A12 12-pin
Circuit	C3, C4, C5, C6, C7	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8	C1, C2, D3, D4, D5, D6, D7	D8
GND	1	6	1	1	K, L	K, L
(+) Vcc	2	1	2	2	M, B	M, B
A	3	2	3	3	E	E
B	4	4	4	4	H	H
N	5	3	5	—	C	—
—	—	—	—	—	—	—
A inv.	—	—	6	6	F	F
B inv.	—	—	7	7	A	A
N inv.	—	—	8	—	D	—
n. c.	—	5	—	5, 8	G, J	D, G, J
Shield	—	—	—	—	—	—

Teknik veriler

Encoder EI30 P 058 CA

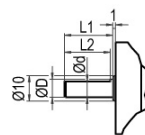
Connector (M16x0.75) R, radial, 5-, 6-, 8-, 12-pin

Ø 3/8", Ø 10 mm:



D = 9.525h7 [0.375] L1 = 22.3 [0.878] d = 9 [0.345] L2 = 20.3 [0.799]
D = 10f7 L1 = 20 d = 9 L2 = 15

Ø 6 mm, Ø 7 mm, Ø 8 mm:



D = 6f7 L1 = 10 d = 5.5 L2 = 9
D = 7f7 L1 = 19
D = 8h8 L1 = 19 d = 7.5 L2 = 15

All dimensions in mm

Description

N inv. poss.

R5	radial, 5-pin, Connector connected to encoder housing	—
R6	radial, 6-pin, Connector connected to encoder housing	—
R8	radial, 8-pin, Connector connected to encoder housing	•
R12	radial, 12-pin, Connector connected to encoder housing	•

Assignments

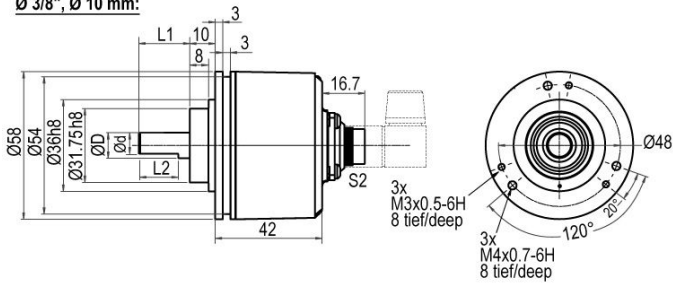
	R5 5-pin	R6 6-pin	R8 8-pin	R8 8-pin	R12 12-pin	R12 12-pin
Circuit	C3, C4, C5, C6, C7	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8	C1, C2, D3, D4, D5, D6, D7	D8
GND	1	6	1	1	K, L	K, L
(+) Vcc	2	1	2	2	M, B	M, B
A	3	2	3	3	E	E
B	4	4	4	4	H	H
N	5	3	5	—	C	—
—	—	—	—	—	—	—
A inv.	—	—	6	6	F	F
B inv.	—	—	7	7	A	A
N inv.	—	—	8	—	D	—
n. c.	—	5	—	5, 8	G, J	D, G, J
Shield	—	—	—	—	—	—

Teknik veriler

Encoder EI30 P 058 CA

Connector (M16x0.75) A7, axial, 7-pin

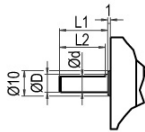
Ø 3/8", Ø 10 mm:



D = 9.525h7 [0.375] L1 = 22.3 [0.878] d = 9 [0.345] L2 = 20.3 [0.799]
D = 10f7 L1 = 20 d = 9 L2 = 15

All dimensions in mm

Ø 6 mm, Ø 7 mm, Ø 8 mm:



D = 6f7 L1 = 10 d = 5.5 L2 = 9
D = 7f7 L1 = 19
D = 8h8 L1 = 19 d = 7.5 L2 = 15

Description

N inv. poss.

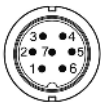
A7 axial, 7-pin, Connector connected to encoder housing

—

Assignments

A7

7-pin



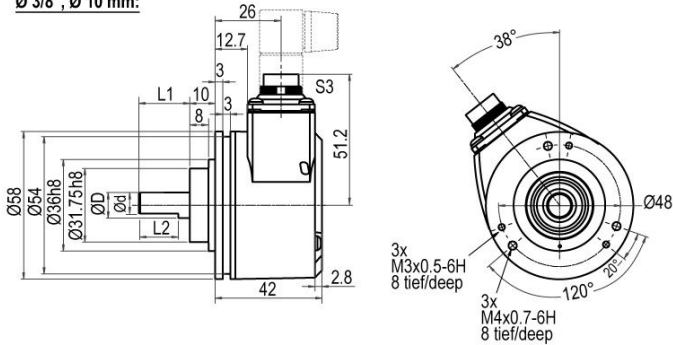
Circuit	C3, C4, C5, C6, C7
GND	1
(+) Vcc	2
A	3
B	4
N	5
—	—
A inv.	—
B inv.	—
N inv.	—
n. c.	6, 7
Shield	—

Teknik veriler

Encoder EI30 P 058 CA

Connector (M16x0.75) R7, radial, 7-pin

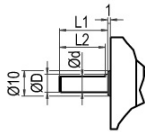
Ø 3/8", Ø 10 mm:



D = 9.525h7 [0.375] L1 = 22.3 [0.878] d = 9 [0.345] L2 = 20.3 [0.799]
D = 10f7 L1 = 20 d = 9 L2 = 15

All dimensions in mm

Ø 6 mm, Ø 7 mm, Ø 8 mm:



D = 6f7 L1 = 10 d = 5.5 L2 = 9
D = 7f7 L1 = 19
D = 8h8 L1 = 19 d = 7.5 L2 = 15

Description

N inv. poss.

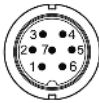
R7 radial, 7-pin, Connector connected to encoder housing

-

Assignments

R7

7-pin

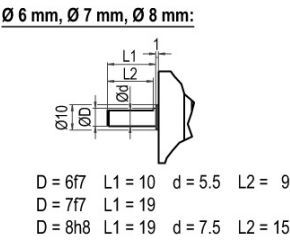
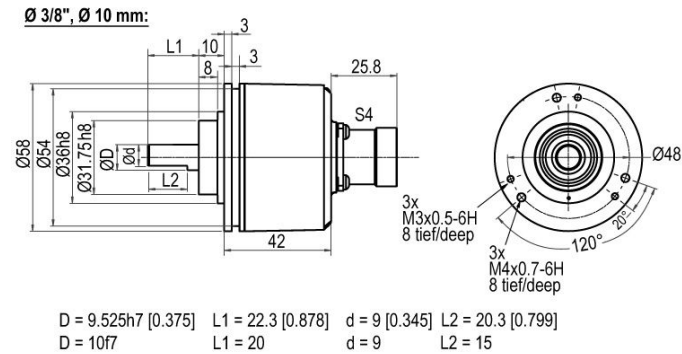


Circuit	C3, C4, C5, C6, C7
GND	1
(+) Vcc	2
A	3
B	4
N	5
-	-
A inv.	-
B inv.	-
N inv.	-
n. c.	6, 7
Shield	-

Teknik veriler

Encoder EI30 P 058 CA

Connector (M23) A12M, axial, 12-pin



All dimensions in mm

Description

N inv. poss.

A12M axial, 12-pin, Connector connected to encoder housing

Assignments

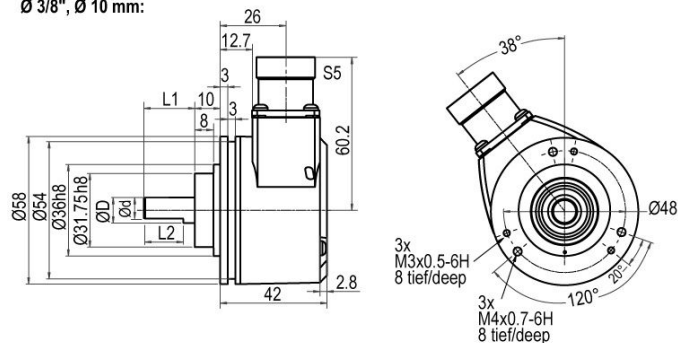
	A12M	A12M	A12M
	12-pin	12-pin	12-pin
Circuit	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8
GND	10	10	10
(+) Vcc	12	12	12
A	5	5	5
B	8	8	8
N	3	3	—
—	—	—	—
A inv.	—	6	6
B inv.	—	1	1
N inv.	—	4	—
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	—	—	—

Teknik veriler

Encoder EI30 P 058 CA

Connector (M23) R12M, radial, 12-pin

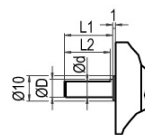
Ø 3/8", Ø 10 mm:



D = 9.525h7 [0.375] L1 = 22.3 [0.878] d = 9 [0.345] L2 = 20.3 [0.799]
D = 10f7 L1 = 20 d = 9 L2 = 15

All dimensions in mm

Ø 6 mm, Ø 7 mm, Ø 8 mm:



D = 6f7 L1 = 10 d = 5.5 L2 = 9
D = 7f7 L1 = 19
D = 8h8 L1 = 19 d = 7.5 L2 = 15

Description

N inv. poss.

R12M radial, 12-pin, Connector connected to encoder housing

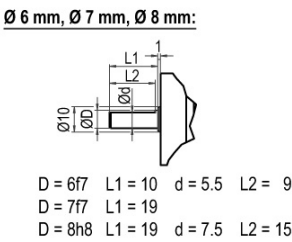
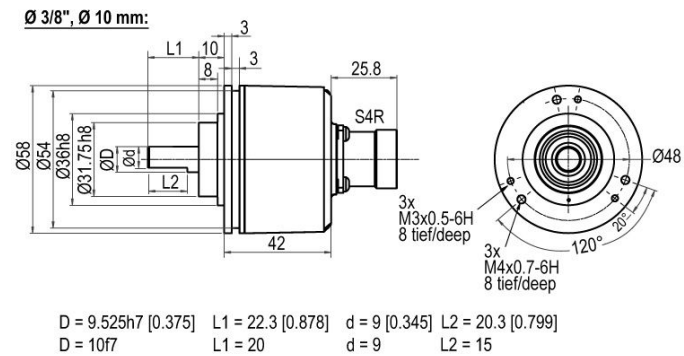
Assignments

	R12M	R12M	R12M
	12-pin	12-pin	12-pin
Circuit	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8
GND	10	10	10
(+) Vcc	12	12	12
A	5	5	5
B	8	8	8
N	3	3	—
—	—	—	—
A inv.	—	6	6
B inv.	—	1	1
N inv.	—	4	—
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	—	—	—

Teknik veriler

Encoder EI30 P 058 CA

Connector (M23) AC, axial, 12-pin (clockwise)



All dimensions in mm

Description

N inv. poss.

AC12 axial, 12-pin, Connector connected to encoder housing

Assignments

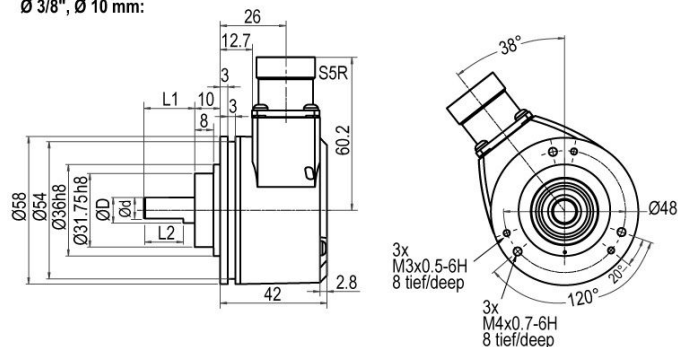
	AC12	AC12	AC12
	12-pin	12-pin	12-pin
Circuit	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8
GND	10	10	10
(+) Vcc	12	12	12
A	5	5	5
B	8	8	8
N	3	3	—
—	—	—	—
A inv.	—	6	6
B inv.	—	1	1
N inv.	—	4	—
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	—	—	—

Teknik veriler

Encoder EI30 P 058 CA

Connector (M23) RC, radial, 12-pin (clockwise)

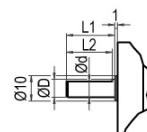
Ø 3/8", Ø 10 mm:



D = 9.525h7 [0.375] L1 = 22.3 [0.878] d = 9 [0.345] L2 = 20.3 [0.799]
D = 10f7 L1 = 20 d = 9 L2 = 15

All dimensions in mm

Ø 6 mm, Ø 7 mm, Ø 8 mm:



D = 6f7 L1 = 10 d = 5.5 L2 = 9
D = 7f7 L1 = 19
D = 8h8 L1 = 19 d = 7.5 L2 = 15

Description

N inv. poss.

RC12 radial, 12-pin, Connector connected to encoder housing

Assignments

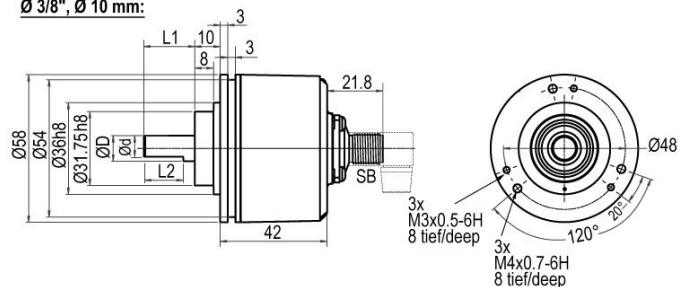
	RC12 12-pin	RC12 12-pin	RC12 12-pin
Circuit	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8
GND	10	10	10
(+) Vcc	12	12	12
A	5	5	5
B	8	8	8
N	3	3	—
—	—	—	—
A inv.	—	6	6
B inv.	—	1	1
N inv.	—	4	—
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	—	—	—

Teknik veriler

Encoder EI30 P 058 CA

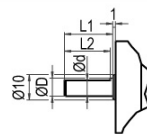
Sensor-connector (M12x1) AS, axial, 4-, 5-, 8-, 12-pin

Ø 3/8", Ø 10 mm:



D = 9.525h7 [0.375] L1 = 22.3 [0.878] d = 9 [0.345] L2 = 20.3 [0.799]
D = 10f7 L1 = 20 d = 9 L2 = 15

Ø 6 mm, Ø 7 mm, Ø 8 mm:



D = 6f7 L1 = 10 d = 5.5 L2 = 9
D = 7f7 L1 = 19
D = 8h8 L1 = 19 d = 7.5 L2 = 15

All dimensions in mm

Description

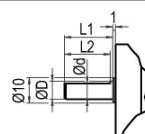
N inv. poss.

AS4	axial, 4-pin, Connector connected to encoder housing	—
AS5	axial, 5-pin, Connector connected to encoder housing	—
AS8	axial, 8-pin, Connector connected to encoder housing	•
AS12	axial, 12-pin, Connector connected to encoder housing	•

Assignments

	AS4 4-pin	AS5 5-pin	AS8 8-pin	AS8 8-pin	AS12 12-pin
Circuit	C3, C4, C5, C6, C7	C3, C4, C5, C6, C7	D3, D4, D5, D6, D7, C1, C2	D8	D3, D4, D5, D6, D7, C1, C2
GND	3	3	1	1	3
(+) Vcc	1	1	2	2	1
A	2	4	3	3	4
B	4	2	4	5	6
N	—	5	5	—	8
—	—	—	—	—	—
A inv.	—	—	6	4	9
B inv.	—	—	7	6	7
N inv.	—	—	8	—	10
n. c.	—	—	—	7, 8	2, 5, 11, 12
Shield	—	—	—	—	—

Sensor-connector (M12x1) RS, radial, 4-, 5-, 8-, 12-pin



D = 6f7 L1 = 10 d = 5.5 L2 = 9
D = 7f7 L1 = 19
D = 8h8 L1 = 19 d = 7.5 L2 = 15

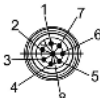
D = 9.525h7 [0.375] L1 = 22.3 [0.878] d = 9 [0.345] L2 = 20.3 [0.799]
D = 10f7 L1 = 20 d = 9 L2 = 15

All dimensions in mm

N inv. poss.

RS4	radial, 4-pin, Connector connected to encoder housing	—
RS5	radial, 5-pin, Connector connected to encoder housing	—
RS8	radial, 8-pin, Connector connected to encoder housing	●
RS12	radial, 12-pin, Connector connected to encoder housing	●

Assignments

	RS4	RS5	RS8	RS8	RS12
	4-pin	5-pin	8-pin	8-pin	12-pin
					
Circuit	C3, C4, C5, C6, C7	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8	C1, C2, D3, D4, D5, D6, D7
GND	3	3	1	1	3
(+) Vcc	1	1	2	2	1
A	2	4	3	3	4
B	4	2	4	5	6
N	—	5	5	—	8
—	—	—	—	—	—
A inv.	—	—	6	4	9
B inv.	—	—	7	6	7
N inv.	—	—	8	—	10
n. c.	—	—	—	7, 8	2, 5, 11, 12
Shield	—	—	—	—	—

Teknik veriler

Encoder EI30 P 058 CA

Options

Low-friction bearings

Order key

The encoder EI30 P 058 CA is also available as a particularly smooth- running low-friction encoder. The starting torque is thereby changed to ≤ 0.5 Ncm [0.708 in-ozf] and the protection class at the shaft input to IP50.

LB

IP67 all around

The encoder EI30 P 058 CA can be supplied in a full IP67 version. Shaft $\varnothing$ 10 mm [0.394"] without flat. IP67 not at 1 Vpp Sin/Cos. IP67 not at shaft $\varnothing$ 7 mm [0.2761"].

IP

Max. RPM: 3500 rpm
 Permitted Shaft-Loading, axial: 100 N [10.197 kp]
 Permitted Shaft-Loading, radial: 110 N [11.216 kp]
 Max. PPR: 25000 ppr
 Starting-torque: approx. 4 Ncm [5.664 in-ozf] at ambient temperature

Low temperature

Order key

The encoder EI30 P 058 CA with the output circuit types C1, C2, C3, C4, C5, C6, D3, D4, D5, D6 is also available with the extended temperature range -40 °C up to $+85$ °C [-40 °F up to $+185$ °F] (measured at the flange).

LT

Pressure equalising membrane

Order key

The EI30 P 058 CA shaft encoder is also optionally available with a pressure equalising membrane. This prevents water from penetrating into the encoder housing in the case of high air humidity.

PE

The IP67 protection level, temperature range and salt spray resistance are maintained. Resistant to chemicals and solvents in accordance with DIN EN ISO 2812-1.

Cable length

Order key

The encoder EI30 P 058 CA can be supplied with more than 2 m cable.
 The maximum cable length depends on the supply voltage and the frequency.

XXX = Decimeter

Please extend the standard order code with a three figure number, specifying the cable length in decimetres.
 Example: 5 m cable = 050

Teknik veriler

Encoder EI30 P 058 CA

Example Order No.	Type																																																																	
EI30 P 058 CA	EI30 P 058 CA																																																																	
	EI30 P 058 CA																																																																	
Shaft																																																																		
10	06; 07; 08; 4Z; 10																																																																	
Pulses per revolution PPR:																																																																		
5000	2, 5, 10, 15, 20, 25, 30, 36, 40, 48, 50, 60, 64, 72, 90, 100, 120, 125, 128, 150, 160, 180, 200, 216, 240, 250, 254, 256, 300, 314, 320, 360, 400, 500, 512, 571, 600, 720, 750, 768, 800, 900, 1000, 1024, 1200, 1250, 1270, 1440, 1500, 1800, 2000, 2048, 2400, 2500, 2880, 3000, 3600, 4000, 4096, 4685, 5000, 5760, 6000, 7200, 7500, 8000, 8192, 10000, 10240, 12000, 12500, 15000, 16384, 20000, 20480, 25000 1 Vpp Sin/Cos only 1024, 2048 Other PPRs on request																																																																	
Channels:																																																																		
N	B, N (SIN: B)																																																																	
Output circuit																																																																		
C6	<table><tr><th>Resolution PPR</th><th>Power supply VDC</th><th>Output circuit</th><th>—</th><th>Order key</th></tr><tr><td rowspan="2">up to 2500</td><td>5 - 30</td><td>HTL (TTL at 5 VDC)</td><td>—</td><td>C7</td></tr><tr><td>5 - 30</td><td>HTL, inv. (TTL/RS422 comp. at 5 VDC)</td><td>—</td><td>D7</td></tr><tr><td rowspan="6">up to 5000</td><td>4.75 - 5.5</td><td>TTL</td><td>—</td><td>C5</td></tr><tr><td>4.75 - 5.5</td><td>TTL, RS422 comp., inverted</td><td>—</td><td>D5</td></tr><tr><td>10 - 30</td><td>HTL</td><td>—</td><td>C6</td></tr><tr><td>10 - 30</td><td>HTL inverted</td><td>—</td><td>D6</td></tr><tr><td>10 - 30</td><td>TTL, RS422 comp., inverted</td><td>—</td><td>C1</td></tr><tr><td>10 - 30</td><td>TTL, RS422 comp., inverted</td><td>—</td><td>D3</td></tr><tr><td rowspan="4">(higher frequency) 1200 up to 25000</td><td>4.75 - 5.5</td><td>TTL</td><td>—</td><td>C3</td></tr><tr><td>4.75 - 5.5</td><td>TTL, RS422 comp., inverted</td><td>—</td><td>D3</td></tr><tr><td>10 - 30</td><td>HTL</td><td>—</td><td>C4</td></tr><tr><td>10 - 30</td><td>HTL inverted</td><td>—</td><td>D4</td></tr><tr><td rowspan="2">1024, 2048</td><td>10 - 30</td><td>TTL, RS422 comp., inverted</td><td>—</td><td>C2</td></tr><tr><td>4.75 - 5.5</td><td>1 Vpp sin/cos</td><td>—</td><td>D8</td></tr></table>	Resolution PPR	Power supply VDC	Output circuit	—	Order key	up to 2500	5 - 30	HTL (TTL at 5 VDC)	—	C7	5 - 30	HTL, inv. (TTL/RS422 comp. at 5 VDC)	—	D7	up to 5000	4.75 - 5.5	TTL	—	C5	4.75 - 5.5	TTL, RS422 comp., inverted	—	D5	10 - 30	HTL	—	C6	10 - 30	HTL inverted	—	D6	10 - 30	TTL, RS422 comp., inverted	—	C1	10 - 30	TTL, RS422 comp., inverted	—	D3	(higher frequency) 1200 up to 25000	4.75 - 5.5	TTL	—	C3	4.75 - 5.5	TTL, RS422 comp., inverted	—	D3	10 - 30	HTL	—	C4	10 - 30	HTL inverted	—	D4	1024, 2048	10 - 30	TTL, RS422 comp., inverted	—	C2	4.75 - 5.5	1 Vpp sin/cos	—	D8
	Resolution PPR	Power supply VDC	Output circuit	—	Order key																																																													
	up to 2500	5 - 30	HTL (TTL at 5 VDC)	—	C7																																																													
		5 - 30	HTL, inv. (TTL/RS422 comp. at 5 VDC)	—	D7																																																													
	up to 5000	4.75 - 5.5	TTL	—	C5																																																													
		4.75 - 5.5	TTL, RS422 comp., inverted	—	D5																																																													
		10 - 30	HTL	—	C6																																																													
		10 - 30	HTL inverted	—	D6																																																													
		10 - 30	TTL, RS422 comp., inverted	—	C1																																																													
		10 - 30	TTL, RS422 comp., inverted	—	D3																																																													
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		10 - 30	HTL	—	C4																																																													
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	1024, 2048	10 - 30	TTL, RS422 comp., inverted	—	C2																																																													
4.75 - 5.5		1 Vpp sin/cos	—	D8																																																														

Teknik veriler

Encoder EI30 P 058 CA

Electrical connections

Description		N inv. poss.	Order key
Cable: length (2 m standard)			
A-N	axial, shield not connected	•	A-N
	axial, shield connected to encoder housing	•	A-C
	radial, shield not connected	•	R-N
	radial, shield connected to encoder housing	•	R-C
	Connector: (shield connected to encoder housing)		
	connector, M16x0.75, 5-pin, axial	–	A5
	connector, M16x0.75, 5-pin, radial	–	R5
	connector, M16x0.75, 6-pin, axial	–	A6
	connector, M16x0.75, 6-pin, radial	–	R6
	connector, M16x0.75, 8-pin, axial	•	A8
	connector, M16x0.75, 8-pin, radial	•	R8
	connector, M16x0.75, 12-pin, axial	•	A12
	connector, M16x0.75, 12-pin, radial	•	R12
	connector, M16x0.75, 7-pin, axial	–	A7
	connector, M16x0.75, 7-pin, radial	–	R7
	connector, M23, 12-pin, axial	•	A12M
	connector, clockwise pin count, M23, 12-pin, axial	•	AC12
	connector, M23, 12-pin, radial	•	R12M
	connector, clockwise pin count, M23, 12-pin, radial	•	RC12
	sensor-connector, M12x1, 4-pin, axial	–	AS4
	sensor-connector, M12x1, 4-pin, radial	–	RS4
	sensor-connector, M12x1, 5-pin, axial	–	AS5
	sensor-connector, M12x1, 5-pin, radial	–	RS5
	sensor-connector, M12x1, 8-pin, axial	•	AS8
	sensor-connector, M12x1, 8-pin, radial	•	RS8
	sensor-connector, M12x1, 12-pin, axial	•	AS12
	sensor-connector, M12x1, 12-pin, radial	•	RS12

Options

Description	Order key
Low-friction bearings	LB
IP67	IP
Low temperature	LT
Pressure equalising membrane	PE
Without option	Empty
Cable length	XXX = Decimeter

Example Order No.:	EI30 P 058 CA	10	5000	N	C6	A-N	EI30 P 058 CA	Your encoder
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Ürün anahtarı

Parça atama: EABB CCCDDEE FFFFFFF GHJJKK LLMNOPPP 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 flanş (kompakt tasarım) CF: Sıkıştırma flanş (gıda ve içecek) CH: Sıkıştırma flanş (ağır hizmet tipi) CL: Sıkıştırma flanş HL: İçi boş şaft (izole edilmiş) HO: İçi boş şaft HT: İçi boş şaft (özel tork desteği) RC: Yuvarlak flanş (36/40 sıkıştırma flanş, 58 – 6 mm şaftlı) RE: Yuvarlak flanş (genişletilmiş delikler) RN: Yuvarlak flanş SC: Stator soketi SF: Vidalı flanş (53 sıkırtırmalı flanş, 58 Gıda ve içecek) SI: Servo flanş (artırılmış mil yükü ve IP koruma sınıfı) SQ: Kare flanş SR: Vidalı flanş (36/40 sıkırtırmalı 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 Axxxx: A Bxxxx: AB Nxxxx: 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 07: SSI ikili 08: SSI Gri 35: CANopen 38: EtherCAT 48: PROFINET 58: EtherNET/IP
LL	Elektrik bağlantısı M08: Yuvarlak konektör M8 M12: Yuvarlak konektör M12 M16: Yuvarlak konektör M16 M23: Yuvarlak konektör 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.

