

Fiche technique

Informations sur la gamme de codeurs rotatifs

Art. n°: 90000390

EI30-P 067 SQ

Contenu

- Caractéristiques techniques
- Code d'article



Figure pouvant varier

Série d'encodeurs	EI 067 SQ
Principe de base encodeur	incrémental
Principe de fonctionnement encodeur	optiquement interpolé
Diamètre de bride encodeur	Ø 67 mm
Type de bride encodeur	Bride carrée
Arbre plein/arbre creux encodeur	Arbre creux
Diamètre d'arbre encodeur	Ø 10 mm
	Ø 7 mm
	Ø 8 mm
Tension d'alimentation encodeur	10 ... 30 V DC
	4,75 ... 5,5 V CC
	5 ... 30 V CC
Commande de sortie encodeur	1 Vss Sin/Cos
	HTL
	HTL, inv.
	TTL
Nombre d'impulsions encodeur	TTL, RS422 compatible, 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

Caractéristiques techniques

Encoder EI30 P 067 SQ

Resolution

Pulses per revolution PPR	up to 25000 PPR
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Mechanical Data

Flange	square flange
Flange material	aluminum
Housing material	die cast aluminum, powder coated
Flange diameter	Ø 67.3 mm [Ø 2.65"]

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"]
Advice	Attention: No option AAO = full IP67 version
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: 19 mm [0.748"]
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 1 Vpp Sin/Cos
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)
Electrical Safety:	according DIN VDE 0160

Duty information

Customs tariff number:	90318020
Country of origin:	Germany

Caractéristiques techniques

Encoder EI30 P 067 SQ

General Data

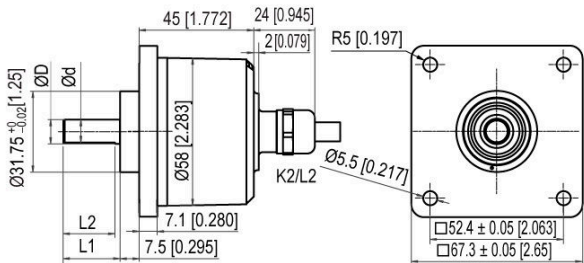
Weight	approx. 300 g [10.582 oz]
Connections	cable or connector outlet
Protection rating (EN 60529)	Housing: IP65, IP67; shaft sealed: IP65
Operating temperature	Connector: -40 °C up to +85 °C, Cable: -20 °C up to +80 °C (Option LT: -40 °C up to +85 °C). Connector: -40 °F up to +185 °F, Cable: -4 °F 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

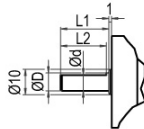
Ø 3/8", Ø 10 mm:



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	•

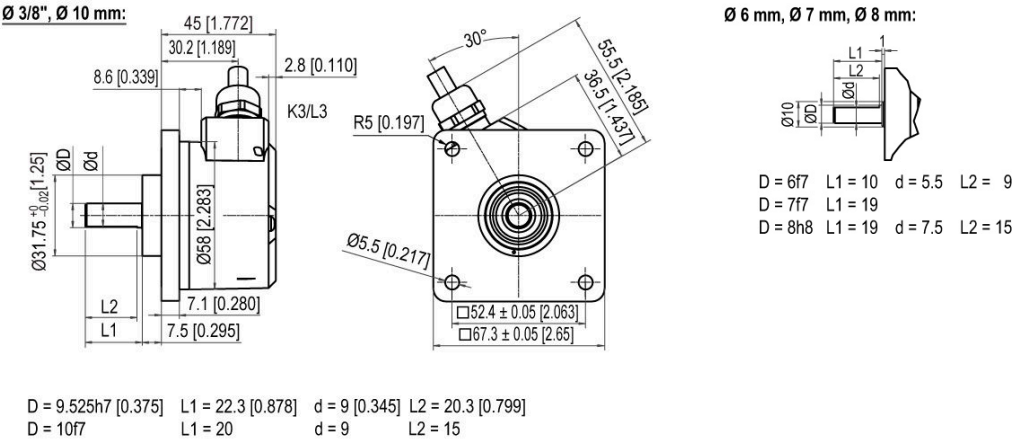
Assignments

	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

Caractéristiques techniques

Encoder EI30 P 067 SQ

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



All dimensions in mm

Description		N inv. poss.
R-N	radial, shield not connected	•
R-C	radial, shield connected to encoder housing	•

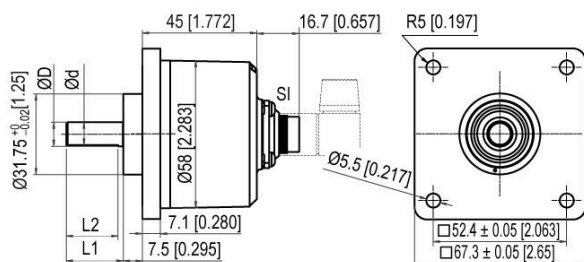
Assignments			
	R-N, R-C	R-N, R-C	R-C
Circuit	C3, C4, C5, C6, C7	D3, D4, D5, D6, C1, C2, D7	D8
GND	WH	WH	WH
(+) Vcc	BN	BN	BN
A	GN	GN	GN
B	YE	YE	GY
N	GY	GY	–
–	–	–	–
A inv.	–	RD	YE
B inv.	–	BK, (BU at LT)	PK
N inv.	–	VT	–
Shield	flex	flex	flex

Caractéristiques techniques

Encoder EI30 P 067 SQ

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

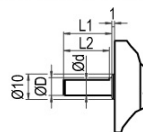
Ø 3/8", Ø 10 mm:



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

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.

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

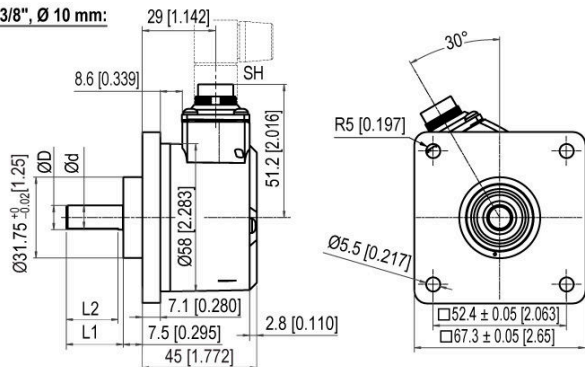
	A5	A6	A8	A8	A12	A12
	5-pin	6-pin	8-pin	8-pin	12-pin	12-pin
Circuit	C3, C4, C5, C6, C7	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8	C1, C2, D3, D4, D5, D6, D7	D8
GND	1	6	1	1	K, L	K, L
(+) Vcc	2	1	2	2	M, B	M, B
A	3	2	3	3	E	E
B	4	4	4	4	H	H
N	5	3	5	—	C	—
—	—	—	—	—	—	—
A inv.	—	—	6	6	F	F
B inv.	—	—	7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

Caractéristiques techniques

Encoder EI30 P 067 SQ

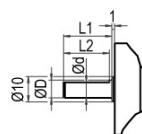
Connector (M16x0.75) R, radial, 5-, 6-, 8-, 12-pin

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

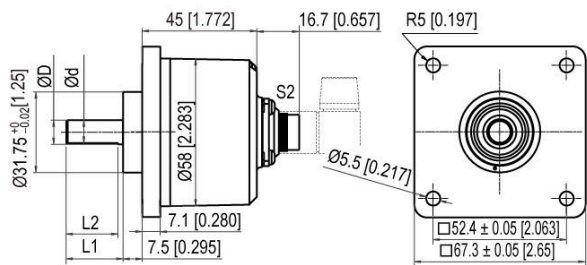
	R5 5-pin	R6 6-pin	R8 8-pin	R8 8-pin	R12 12-pin	R12 12-pin
Circuit	C3, C4, C5, C6, C7	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8	C1, C2, D3, D4, D5, D6, D7	D8
GND	1	6	1	1	K, L	K, L
(+) Vcc	2	1	2	2	M, B	M, B
A	3	2	3	3	E	E
B	4	4	4	4	H	H
N	5	3	5	—	C	—
—	—	—	—	—	—	—
A inv.	—	—	6	6	F	F
B inv.	—	—	7	7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

Caractéristiques techniques

Encoder EI30 P 067 SQ

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

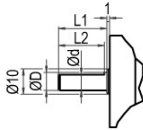
Ø 3/8", Ø 10 mm:



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

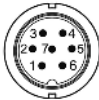
N inv. poss.

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

Assignments

A7

7-pin

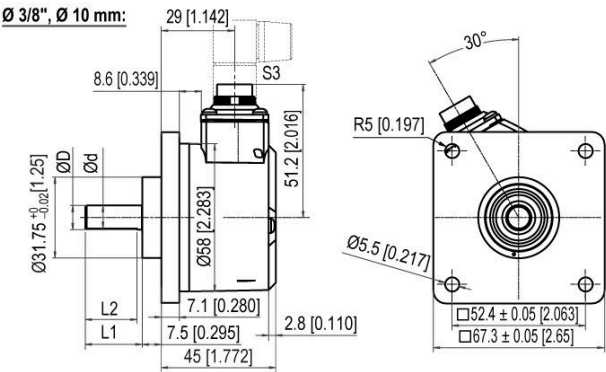


Circuit	C3, C4, C5, C6, C7
GND	1
(+) Vcc	2
A	3
B	4
N	5
—	—
A inv.	—
B inv.	—
N inv.	—
n. c.	6, 7
Shield	—

Caractéristiques techniques

Encoder EI30 P 067 SQ

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



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

Description

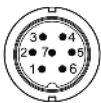
N inv. poss.

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

Assignments

R7

7-pin



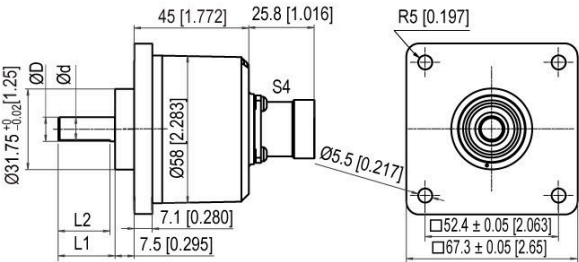
Circuit	C3, C4, C5, C6, C7
GND	1
(+) Vcc	2
A	3
B	4
N	5
—	—
A inv.	—
B inv.	—
N inv.	—
n. c.	6, 7
Shield	—

Caractéristiques techniques

Encoder EI30 P 067 SQ

Connector (M23) A12M, axial, 12-pin

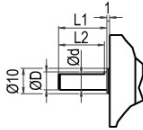
Ø 3/8", Ø 10 mm:



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.

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

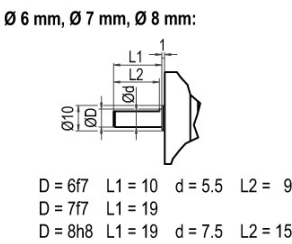
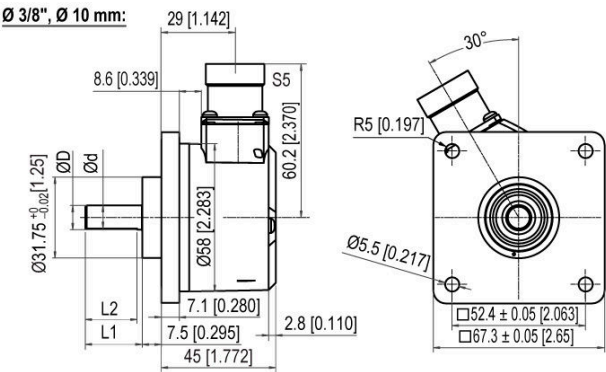
Assignments

	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	–	–	–

Caractéristiques techniques

Encoder EI30 P 067 SQ

Connector (M23) R12M, radial, 12-pin



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

Description N inv. poss.

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

Assignments

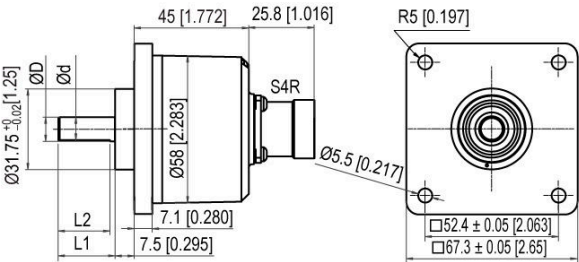
	R12M	R12M	R12M
	12-pin	12-pin	12-pin
Circuit	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8
GND	10	10	10
(+) Vcc	12	12	12
A	5	5	5
B	8	8	8
N	3	3	—
—	—	—	—
A inv.	—	6	6
B inv.	—	1	1
N inv.	—	4	—
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	—	—	—

Caractéristiques techniques

Encoder EI30 P 067 SQ

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

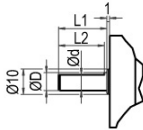
Ø 3/8", Ø 10 mm:



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.

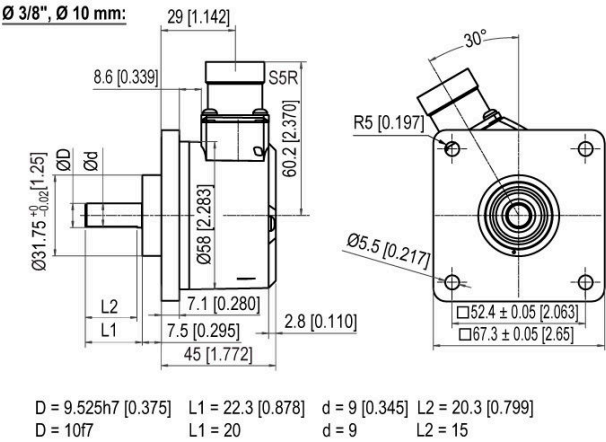
AC12 axial, 12-pin, Connector connected to encoder housing

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	–	–	–

Encoder EI30 P 067 SQ

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



All dimensions in mm

Description N inv. poss.

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

Assignments

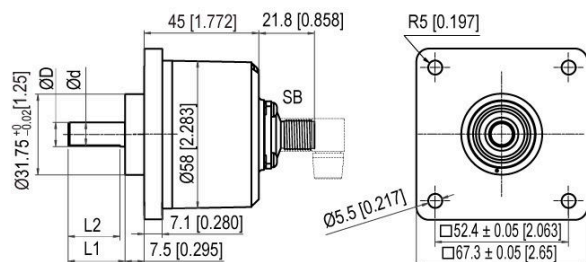
	RC12 12-pin	RC12 12-pin	RC12 12-pin
Circuit	C3, C4, C5, C6, C7	C1, C2, D3, D4, D5, D6, D7	D8
GND	10	10	10
(+) Vcc	12	12	12
A	5	5	5
B	8	8	8
N	3	3	—
—	—	—	—
A inv.	—	6	6
B inv.	—	1	1
N inv.	—	4	—
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	—	—	—

Caractéristiques techniques

Encoder EI30 P 067 SQ

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

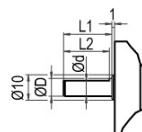
Ø 3/8", Ø 10 mm:



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

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.

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

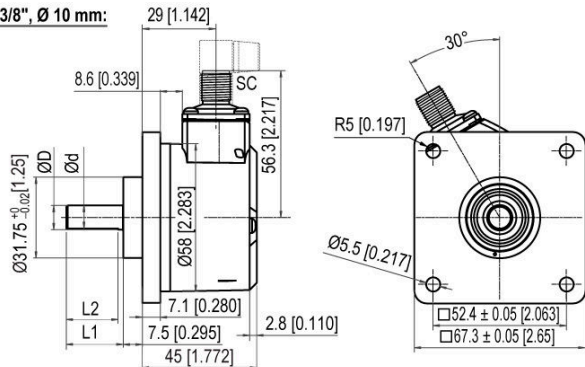
	AS4 4-pin	AS5 5-pin	AS8 8-pin	AS8 8-pin	AS12 12-pin
Circuit	C3, C4, C5, C6, C7	C3, C4, C5, C6, C7	D3, D4, D5, D6, D7, C1, C2	D8	D3, D4, D5, D6, D7, C1, C2
GND	3	3	1	1	3
(+) Vcc	1	1	2	2	1
A	2	4	3	3	4
B	4	2	4	5	6
N	—	5	5	—	8
—	—	—	—	—	—
A inv.	—	—	6	4	9
B inv.	—	—	7	6	7
N inv.	—	—	8	—	10
n. c.	—	—	—	7,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

Caractéristiques techniques

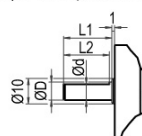
Encoder EI30 P 067 SQ

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

Ø 3/8", Ø 10 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

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

Description

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 4-pin	RS5 5-pin	RS8 8-pin	RS8 8-pin	RS12 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	—	—	—	—	—

Caractéristiques techniques

Encoder EI30 P 067 SQ

Options

Low-friction bearings

Order key

The encoder EI30 P 067 SQ 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 Shafts sealed to IP67

The encoder EI30 P 067 SQ 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 067 SQ 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 067 SQ 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 067 SQ 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

Caractéristiques techniques

Encoder EI30 P 067 SQ

Example Order No.	Type				
EI30 P 067 SQ	EI30 P 067 SQ	EI30 P 067 SQ			
Shaft					
4Z	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	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
	(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

Caractéristiques techniques

Encoder EI30 P 067 SQ

Electrical connections

	Description	N inv. poss.	Order key
A-N	Cable: length (2 m standard)		
	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 067 SQ	4Z	5000	N	C6	A-N	EI30 P 067 SQ	Your encoder
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Code d'article

Désignation d'article : **EABB CCCDDEE FFFFFFF GHJJKK LLMNOPPP RR**

A	Type de codeur rotatif I : Incrémental S : Absolu, mono-tour M : Absolu, multi-tour
BB	Série 10 : Entry 30 : Basic 50 : Extended 70 : Advanced
CCC	Diamètre de bride 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	Type de bride BB : Arbre creux avec alésage Sackloch CC : Bride de serrage (forme compacte) CF : Bride de serrage (aliments et boissons) CH : Bride de serrage (exécution pour charges lourdes) CL : Bride de serrage HI : Arbre creux (isolé) HO : Arbre creux HT : Arbre creux (supports de couple spéciaux) RC : Bride ronde (bride de serrage 36/40, 58 avec arbre de 6 mm) RE : Bride ronde (alésages étendus) RN : Bride ronde SC : Accouplement statorique SF : Bride à vis (bride de serrage 53, 58 Aliments et boissons) SI : Bride synchro (charge sur l'arbre étendue et protection IP) SQ : Bride carrée SR : Bride à vise (bride de serrage 36/40, 58 résistante à la corrosion) SY : Synchro (incrémental), Servo (36), Synchro (58) (absolu) TM : Tacho (115 avec arbre de 1 mm, rétroaction moteur 58) TS : Tacho (arbre de 10 mm)
EE	Diamètre arbre/alésage 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 : Alésage creux/Sackloch (6 ... 72 mm)
FFFFFF	Signal/résolution Axxxxx : A Bxxxxx : AB Nxxxxx : ABN P16384 : programmable xx : Mono-tour, 1 ... 16 bit xx : Multi-tour, 0 ... 43 bit (00 pour mono-tour)
G	Isolation galvanique (absolu uniquement) 0 : sans 1 : avec
HH	Alimentation en tension (absolu uniquement) 0 : 10 ... 32 V CC/avec isolation galvanique 1 : 4,75 ... 5,5 V CC 2 : 18 ... 30 V CC
J	Principe de fonctionnement M : magnétique O : Optique P : optiquement interpolé

Code d'article

KK	Interface 01 : RS485 07 : SSI binaire 08: SSI Gray 35 : CANopen 38 : EtherCAT 48 : PROFINET 58 : EtherNET/IP
LL	Raccordement électrique M08 : Connecteur rond M8 M12 : Connecteur rond M12 M16 : Connecteur rond M16 M23 : Connecteur rond M23 M12BC : Connecteur boîtier réseau
M	Sortie de câble A : Axial R : Radial T : Tangentiel
NN	Nombre de pôles xx : Nombre de pôles
O	Connexion blindage (câble 2 m) (en option) C : raccordé N : non raccordé
PPP	Longueur de câble xxx : Longueur de câble (en dm)

Remarque



Vous trouverez une liste de tous les types d'appareil disponibles sur le site Internet de Leuze à l'adresse www.leuze.com.

