기술 데이터 시트
엔코더 시리즈 정보
품목 번호: 90000100
EI30-M 058 SY



그림과 차이가 날 수 있습니다

내용

- 기술 데이터
- 제품 키워드

인코더_시리즈	EI 058 SY
인코더_기본 원리	증분형
인코더_작동 원리	자기식
인코더_플랜지 직경	Ø 58mm
인코더_플랜지 유형	싱크로 플랜지
인코더_실축/중공축	중공축
인코더_축 직경	Ø 10mm
	Ø 6mm
	Ø 8mm
인코더_공급전압	4.75 ~ 30 VDC
인코더_출력 회로	HTL(5 VDC에서 TTL)
	HTL, 반전형(5 VDC에서 TTL/RS422 호환)
인코더_펄스 수	1 ~ 16384I/U

기술 데이터

Encoder EI30 M 058 SY

Resolution

Pulses per revolution PPR	1 PPR up to 16384 PPR

Mechanical Data

Flange	synchro flange
Flange material	aluminum
Housing material	Stainless steel or die cast aluminum, powder coated (only M16 and M23 plugs)
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. 0.5 Ncm [0.708 in-ozf] at ambient temperature
Shaft	Ø 6 mm [Ø 0.236"]
Advice	Attention: No option IP = full IP67 version
Shaft length	L: 12 mm [0.472"]
Max. Permissible shaft loading radial	125 N [12.746 kp]
Max. Permissible shaft loading axial	120 N [12.236 kp]
Shaft	Ø 8 mm [Ø 0.315"]
	Attention: No option IP = full IP67 version
Shaft length	L: 19 mm [0.748"]
Max. Permissible shaft loading radial	125 N [12.746 kp]
Max. Permissible shaft loading axial	120 N [12.236 kp]
Shaft	Ø 9.525 mm [Ø 3/8"] Order No: 4Z
	Attention: No option IP = full IP67 version
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 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]

Bearings

Bearings type	2 precision ball bearings
Nominale service life	3 x 10'8 revs. at 100 % rated shaft load 5 x 10'9 revs. at 40 % rated shaft load 4 x 10'10 revs. at 20 % rated shaft load
Max. operating speed	10000 rpm

Machinery Directive: basic data safety integrity level

$MTTF_d$	2200 a
Mission time (TM)	25 a
Nominale service life (L10h)	4 x 10'11 revs. at 20 % rated shaft load and 10000 rpm
Diagnostic coverage (DC)	0 %

Electrical Data

Power supply/Current consumption	4.75 VDC up to 30 VDC: typ. 40 mA
Operating principle	magnetic
Output circuit	HTL (TTL at 5 VDC) HTL, inv. (TTL/RS422 comp. at 5 VDC)
Pulse frequency	HTL up to 16384 ppr: max. 600 kHz TTL up to 16384 ppr: max. 1 MHz
Channels	N and inverted signals
Load	max. 40 mA / channel
Circuit protection	yes

Accuracy

Phase offset	90° ± max. 7.5 % of the period duration
pulse-/pause-ratio	50 % ± max. 7 %

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

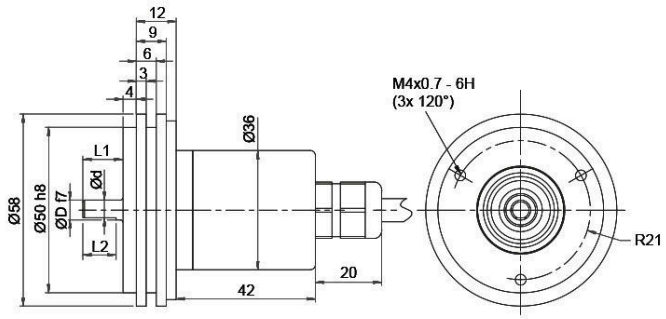
General Data

Weight	approx. 230 g [8.113 oz]
Connections	cable or connector outlet
Protection rating (EN 60529)	Housing: IP65, IP67; shaft sealed: IP65 cable outlet R-IP: IP40
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°
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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Encoder EI30 M 058 SY

Cable connection A-C axial with 2 m cable



D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8", L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
A-C	axial, shield connected to encoder housing	•

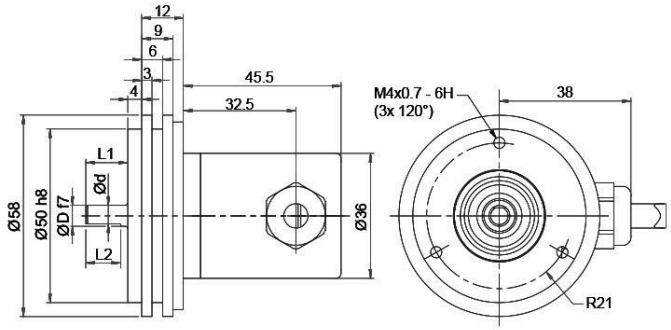
Assignments

	A-C	A-C
Circuit	D2	D1
GND	WH	WH
(+) Vcc	BN	BN
A	GN	GN
B	YE	YE
N	GY	GY
–	–	–
A inv.	–	RD
B inv.	–	BK, (BU at LT)
N inv.	–	VT
Shield	flex	flex

기술 데이터

Encoder EI30 M 058 SY

Cable connection R-C radial with 2 m cable



D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8", L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
R-C	radial, shield connected to encoder housing	•

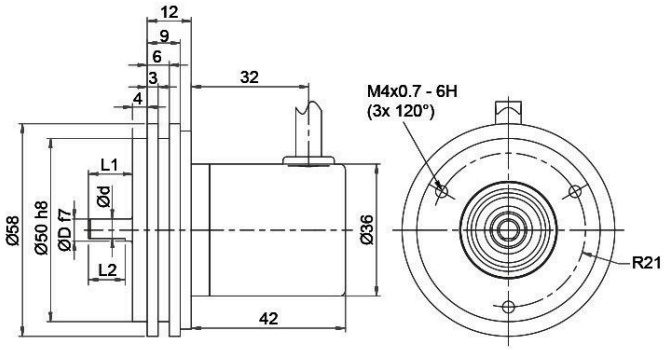
Assignments

	R-C	R-C
Circuit	D2	D1
GND	WH	WH
(+) Vcc	BN	BN
A	GN	GN
B	YE	YE
N	GY	GY
–	–	–
A inv.	–	RD
B inv.	–	BK, (BU at LT)
N inv.	–	VT
Shield	flex	flex

기술 데이터

Encoder EI30 M 058 SY

Cable R-IP (IP40) radial with 2 m cable



D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8", L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
R-IP	radial, shield not connected (IP40)	•

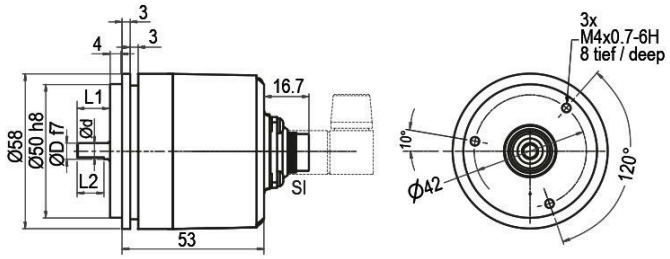
Assignments

	R-IP	R-IP
Circuit	D2	D1
GND	WH	WH
(+) Vcc	BN	BN
A	GN	GN
B	YE	YE
N	GY	GY
–	–	
A inv.	–	RD
B inv.	–	BK
N inv.	–	VT
Shield	flex	flex

기술 데이터

Encoder EI30 M 058 SY

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



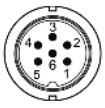
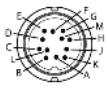
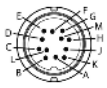
D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8", L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

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	•

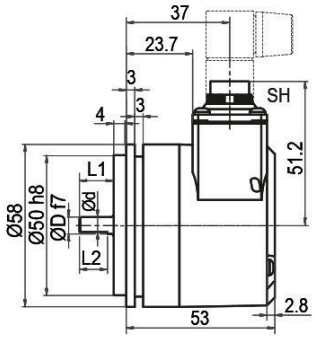
Assignments

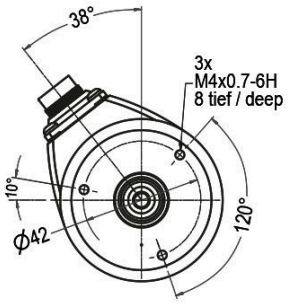
	A5	A6	A8	A8	A12	A12
	5-pin	6-pin	8-pin	8-pin	12-pin	12-pin
						
Circuit	D2	D2	D2	D1	D2	D1
GND	1	6	1	1	K, L	K, L
(+) Vcc	2	1	2	2	M, B	M, B
A	3	2	3	3	E	E
B	4	4	4	4	H	H
N	5	3	5	5	C	C
–	–	–	–	–	–	–
A inv.	–	–	–	6	–	F
B inv.	–	–	–	7	–	A
N inv.	–	–	–	8	–	D
n. c.	–	5	6, 7, 8	–	A, D, F, G, J	G, J
Shield	–	–	–	–	–	–

기술 데이터

Encoder EI30 M 058 SY

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





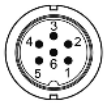
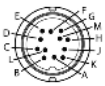
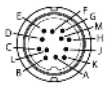
D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8“, L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

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	•

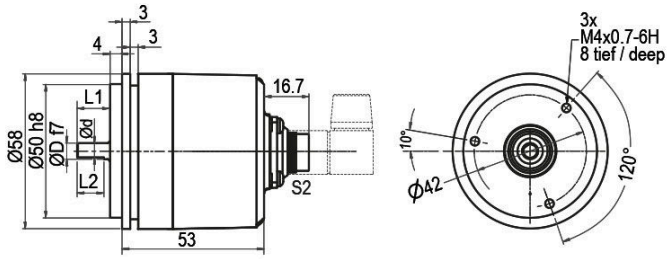
Assignments

	R5	R6	R8	R8	R12	R12
	5-pin	6-pin	8-pin	8-pin	12-pin	12-pin
						
Circuit	D2	D2	D2	D1	D2	D1
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	5	C	C
–	–	–	–	–	–	–
A inv.	–	–	–	6	–	F
B inv.	–	–	–	7	–	A
N inv.	–	–	–	8	–	D
n. c.	–	5	6, 7, 8	–	A, D, F, G, J	G, J
Shield	–	–	–	–	–	–

기술 데이터

Encoder EI30 M 058 SY

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



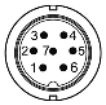
D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8", L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
A7	axial, 7-pin, Connector connected to encoder housing	–

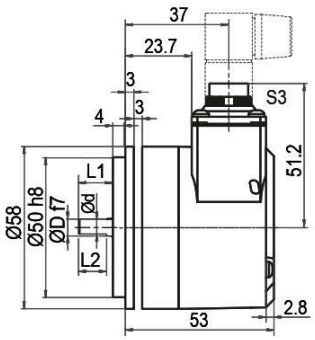
Assignments

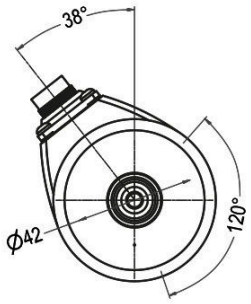
	A7
	7-pin
	
Circuit	D2
GND	1
(+) Vcc	2
A	3
B	4
N	5
–	–
A inv.	–
B inv.	–
N inv.	–
n. c.	6, 7
Shield	–

기술 데이터

Encoder EI30 M 058 SY

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





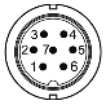
D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8“, L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
R7	radial, 7-pin, Connector connected to encoder housing	–

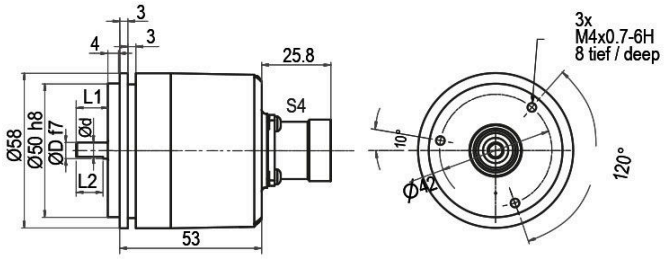
Assignments

	R7
	7-pin
	
Circuit	D2
GND	1
(+) Vcc	2
A	3
B	4
N	5
–	–
A inv.	–
B inv.	–
N inv.	–
n. c.	6, 7
Shield	–

기술 데이터

Encoder EI30 M 058 SY

Connector (M23) A12M, axial, 12-pin



D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8“, L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
A12M	axial, 12-pin, Connector connected to encoder housing	–

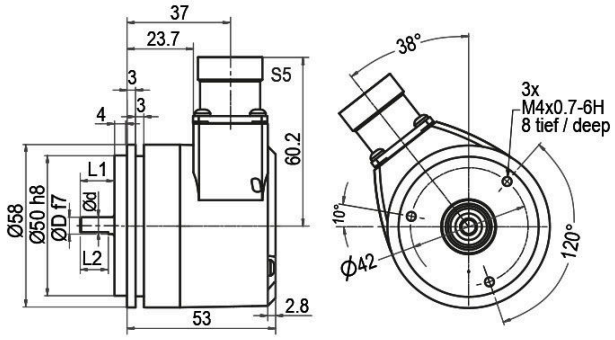
Assignments

	A12M	A12M
	12-pin	12-pin
		
Circuit	D2	D1
GND	10	10
(+) Vcc	12	12
A	5	5
B	8	8
N	3	3
–	–	–
A inv.	–	6
B inv.	–	1
N inv.	–	4
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11
Shield	–	–

기술 데이터

Encoder EI30 M 058 SY

Connector (M23) R12M, radial, 12-pin



D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8“, L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
R12M	radial, 12-pin, Connector connected to encoder housing	•

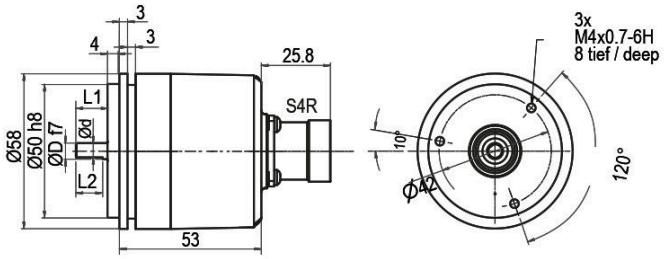
Assignments

	R12M 12-pin	R12M 12-pin
		
Circuit	D2	D1
GND	10	10
(+) Vcc	12	12
A	5	5
B	8	8
N	3	3
–	–	–
A inv.	–	6
B inv.	–	1
N inv.	–	4
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11
Shield	–	–

기술 데이터

Encoder EI30 M 058 SY

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



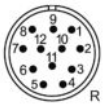
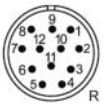
D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8", L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
AC12	axial, 12-pin, Connector connected to encoder housing	•

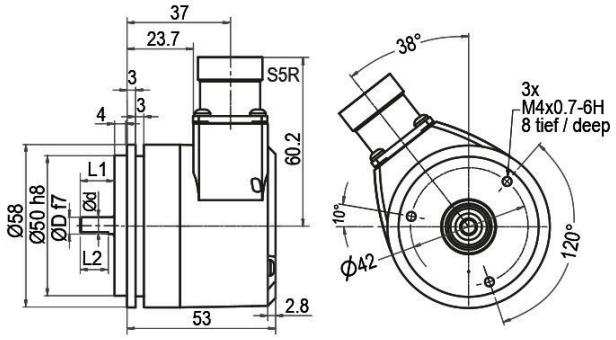
Assignments

	AC12	AC12
	12-pin	12-pin
		
Circuit	D2	D1
GND	10	10
(+) Vcc	12	12
A	5	5
B	8	8
N	3	3
–	–	–
A inv.	–	6
B inv.	–	1
N inv.	–	4
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11
Shield	–	–

기술 데이터

Encoder EI30 M 058 SY

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



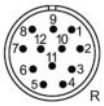
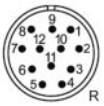
D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8“, L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
RC12	radial, 12-pin, Connector connected to encoder housing	•

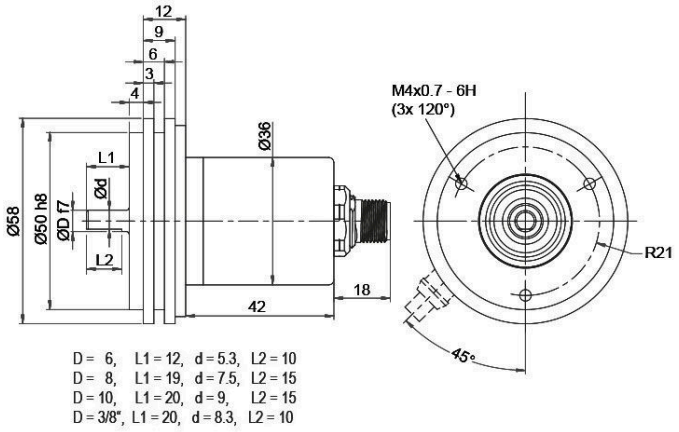
Assignments

	RC12 12-pin	RC12 12-pin
		
Circuit	D2	D1
GND	10	10
(+) Vcc	12	12
A	5	5
B	8	8
N	3	3
–	–	–
A inv.	–	6
B inv.	–	1
N inv.	–	4
n. c.	1, 2, 4, 6, 7, 9, 11	2, 7, 9, 11
Shield	–	–

기술 데이터

Encoder EI30 M 058 SY

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



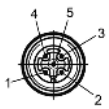
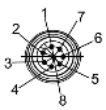
D = 6, L1 = 12, d = 5.3, L2 = 10
D = 8, L1 = 19, d = 7.5, L2 = 15
D = 10, L1 = 20, d = 9, L2 = 15
D = 3/8", L1 = 20, d = 8.3, L2 = 10

Option AX:
D = 6, L1 = 10, d = 5.3, L2 = 8

All dimensions in mm

Description		N inv. poss.
AS5	axial, 5-pin, Connector connected to encoder housing	–
AS8	axial, 8-pin, Connector connected to encoder housing	•

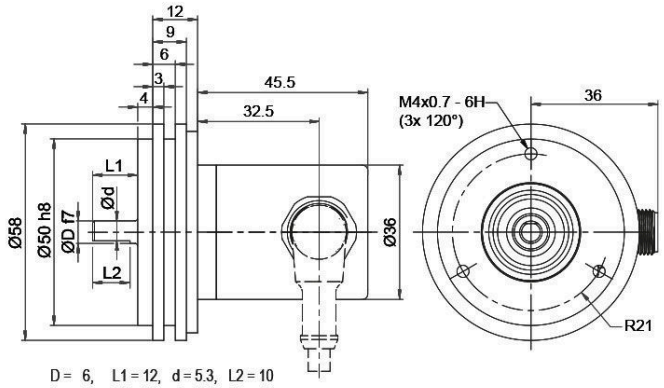
Assignments

	AS5	AS8
	5-pin	8-pin
		
Circuit	D2	D1
GND	3	1
(+) Vcc	1	2
A	4	3
B	2	4
N	5	5
–	–	–
A inv.	–	6
B inv.	–	7
N inv.	–	8
n. c.	–	–
Shield	–	–

기술 데이터

Encoder EI30 M 058 SY

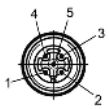
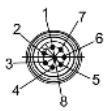
Sensor-connector (M12x1) RS, radial, 5-, 8-pin



All dimensions in mm

Description		N inv. poss.
RS5	radial, 5-pin, Connector connected to encoder housing	–
RS8	radial, 8-pin, Connector connected to encoder housing	•

Assignments

	RS5	RS8
	5-pin	8-pin
		
Circuit	D2	D1
GND	3	1
(+) Vcc	1	2
A	4	3
B	2	4
N	5	5
–	–	–
A inv.	–	6
B inv.	–	7
N inv.	–	8
n. c.	–	–
Shield	–	–

기술 데이터

Encoder EI30 M 058 SY

Options

Low-friction bearings	Order key
The encoder EI30 M 058 SY 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

Shafts sealed to IP67, only with 10 mm [0.394"] shaft		Order key
The encoder EI30 M 058 SY can be supplied in a IP67 version. (full IP67 only connection AS, RS, A-C or R-C version; not cable connection R-IP = IP40).		IP
Max. RPM:	3500 min^{-1}	
Permitted Shaft-Loading:	axial 100 N [10.197 kp]; radial 110 N [11.216 kp]	
Starting-torque:	approx. 4 Ncm [5.664 in-ozf] at ambient temperature	

Low temperature	Order key
The encoder EI30 M 058 SY with the output circuit types D1, D2 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 M 058 SY 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. 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.	PE

Shaft length 10 mm [0.394"] (Ø 6 mm [0.236"])	Order key
The encoder EI30 M 058 SY shaft: Ø 6 mm [0.236"] is also available with a shortened shaft L = 10 mm [0.394"].	AX

Cable length	Order key
The encoder EI30 M 058 SY can be supplied with more than 2 m cable. The maximum cable length depends on the supply voltage and the frequency. Please extend the standard order code with a three figure number, specifying the cable length in decimetres. Example: 5 m cable = 050	XXX = Decimeter

기술 데이터

Encoder EI30 M 058 SY

Example Order No.	Type	
EI30 M 058 SY	EI30 M 058 SY	EI30 M 058 SY

	Shaft
06	06; 08; 4Z; 10

	Pulses per revolution PPR:
16384	1-16384 Other PPRs on request

	Channels:
N	N

Output circuit

	Resolution PPR	Power supply VDC	Output circuit	–	Order key
D1	1-16384	4.75 - 30	HTL (TTL at 5 VDC)	–	D2
		4.75 - 30	HTL, inv. (TTL/RS422 comp. at 5 VDC)	–	D1

기술 데이터

Leuze

Encoder EI30 M 058 SY

Electrical connections

	Description	N inv. poss.	Order key
A-C	**Cable: length (2 m standard)**		
	radial, shield not connected (IP40)	•	R-IP
	axial, shield connected to encoder housing	•	A-C
	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, M23, 12-pin, radial	•	R12M
	connector, clockwise pin count, M23, 12-pin, axial	•	AC12
	connector, clockwise pin count, M23, 12-pin, radial	•	RC12
	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

Options

Description	Order key
Low-friction bearings	LB
Shafts sealed to IP67, only with 10 mm [0.394"] shaft	IP
Low temperature	LT
Pressure equalising membrane	PE
Shaft length 10 mm [0.394"] (Ø 6 mm [0.236"])	AX
Without option	Empty
Cable length	XXX = Decimeter

Example Order No.:	EI30 M 058 SY	06	16384	N	D1	A-C	EI30 M 058 SY	**Your encoder**

제품 키워드

제품 명칭: **EABB CCCDDEE FFFFFF GHHJKK LLMNNOPPP RR**

A	**회전 센서 유형** I: 증분형 S: 절대형, 싱글턴 M: 절대형, 멀티턴
BB	**시리즈** 10: Entry 30: 기본 50: 확장형 70: Advanced
CCC	**플랜지 직경** 024: 24mm 036: 36mm 058: 58mm 063: 63mm 067: 67mm 070: 70mm 080: 80mm 100: 100 mm 115: 115 mm
DD	**플랜지 유형** BB: 막힌 구멍 보어가 있는 중공축 CC: 클램핑 플랜지(컴팩트형) CF: 클램핑 플랜지(식품 및 음료용) CH: 클램핑 플랜지(중하중형) CL: 클램핑 플랜지 HI: 중공축(절연) HO: 중공축 HT: 중공축(특수 토크 지지대) RC: 원형 플랜지(36/40 클램핑 플랜지, 58은 6 mm 축 적용) RE: 원형 플랜지(확장 홀) RN: 원형 플랜지 SC: 스테이터 커플링 SF: 나사식 플랜지(53 클램핑 플랜지, 58 식품 및 음료용) SI: 서보 플랜지(증가된 축 하중 및 IP 보호) SQ: 스퀘어 플랜지 SR: 나사식 플랜지(36/40 클램핑 플랜지, 58 내식형) SY: 싱크로(증분형), 서보(36), 싱크로(58)(절대형) TM: 타코(115, 1mm 축, 58 모터 피드백) TS: 타코(10mm 축)
EE	**축/보어 직경** 06: 6mm 07: 7mm 08: 8mm 08: 8mm 10: 10mm 11: 11mm 12: 12mm 14: 14mm 15: 15 mm 06-72: 중공축/막힌 구멍 보어(6 ~ 72mm)
FFFFFF	**신호/분해능** Axxxxx: A Bxxxxx: AB Nxxxxx: ABN P16384: 프로그래밍 가능 xx: 싱글턴, 1 ~ 16비트 xx: 멀티턴, 0 ~ 43비트(싱글턴의 경우 00)
G	**갈바닉 절연(절대형에 한함)** 0: 제외 1: 있음
HH	**전원 공급(절대형에 한함)** 0: 10 ~ 32V DC/갈바닉 절연 1: 4.75 ~ 5.5V DC 2: 18 ~ 30V DC
J	**작동 원리** M: 자기식 O: 광학 방식 P: 광학 보간

제품 키워드

KK	**인터페이스** 01: RS485 07: SSI 2진 08: SSI Gray 35: CANopen 38: EtherCAT 48: PROFINET 58: EtherNet/IP
LL	**전기 연결** M08: 원형 커넥터 M8 M12: 원형 커넥터 M12 M16: 원형 커넥터 M16 M23: 원형 커넥터 M23 M12BC: 버스 커넥터
M	**케이블 출구** A: 액시얼 R: 레이디얼 T: 접선형
NN	**핀 개수** xx: 핀 개수
O	**차폐 연결(2m 케이블)(옵션)** C: 연결됨 N: 연결되지 않음
PPP	**케이블 길이** xxx: 케이블 길이(단위: dm)

참고

제공되는 모든 장치 유형 목록은 로이체의 웹 사이트 www.leuze.com을 참조하십시오.

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