INCREMENTAL MAGNETIC ENCODER

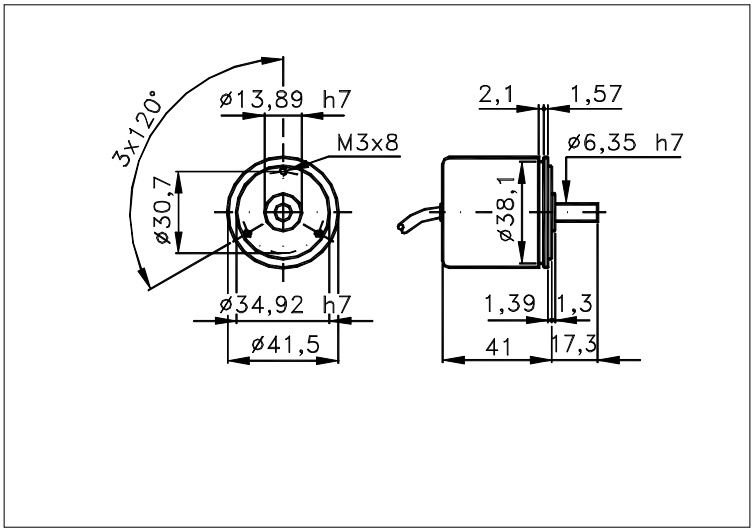
M41S

'SIZE 17' MINIATURE MAGNETIC ENCODER WITH 'SERVO-MOUNT' FLANGE
AND HIGH PROTECTION DEGREE AND IMMUNITY TO OILS, LIQUIDS ETC..
FIT FOR APPLICATIONS AS MARINE, MEDICAL, PRINTING, METAL WORKING.

data sheet . IR 017 E00

Sized draw standard version: CV

Measures without tolerance according to UNI ISO 2768-mk



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- **Base**.....: ALUMINIUM
- **Cover**.....: ALUMINIUM
- **Weight**.....: 120 g
- **Shaft**.....: Ø 6,35 STAINLESS STEEL
- **Max.rad/axial load.**: 1 kg
- **IP output side.(°).**: see 'CONNECTION' of page 2

IP shaft side..(°).>	std. 64	sealed 66	low torq 53
opt. type (page 2).>	standard	Z	B
Contin. max RPM(**)>	6000	3000	12000
Starting torque gcm>	12	30	8

- **Ball bearings life...**: 1,5 x 10^9 revolutions
- **Impact resistance....**: 100 G x 6ms
- **Vibration resistance.**: 10 G (55 ÷ 2000 Hz)
- **Power supply.....**: 5÷30V (vedi pag.2)
- **Operating temperature**: -25÷85 °C
- **Storage temperature..**: -30÷85 °C
- **N° of pulses/rev.....**: 8 ÷ 2048 (*)
  (see page 2) (*)
- **Max consumptions mA..**: std 50 line driver 90
- **Max frequency.....**: 600 kHz

(°) IP according to CEI EN 60529,EN 60529,IEC 529

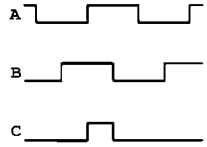
(*) multiplicable x4 by the Customer

(**) intermittent max RPM + 30% of continuous max RP

ELECTRONICS

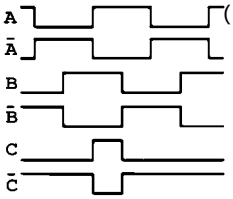
CODE	DESCRIPTION	mA
	STANDARD NPN	10
K	NPN OPEN COLL	10
Q	NPN	70
R	NPN OPEN COLL	70

(§)



CODE	DESCRIPTION	mA
N	DRIVER 26LS31	35
Z	DRIVER ET7272	30

(§)



CODE	DESCRIPTION	mA

(§)

CODE	DESCRIPTION	mA

(§)

Tolerance between phases 45° ± , symmetry ± 15°

(§) Clock-wise output rotation (see shaft).

elcis

Elcis encoder s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY
Phone: +39 011 715577/78 a.r.
MAIL: Elcis encoder s.r.l. P.O.Box 70 10093 COLLEGNO (TO) ITALY

* http://www.elcis.com
* e-mail: info@elcis.com
* Fax: +39 011 712613

POSSIBLE OPTIONS

CODE	DESCRIPTION
Z	Sealed ball bear.
B	Low torque ball bear.
H	Different shaft Ø

CODE	DESCRIPTION
K	Invert. phase A,B,Zero
M	Impregnated electronic
G	Tropicalization

POSSIBLE CONNECTIONS

CABLE	OUTPUT:
CV	AX RAD

CONNECTOR	OUTPUT:

CABLE END CONNECTOR	OUTPUT:
VM TM VL TL VD VH VH5 VI VE VK TK VN VH6 VM5 VM9 VS VD5	AX RAD

TERMINAL BOX	OUTPUT:

ORDERING INFORMATION

Possible shaft Ø

( )
( )
( )
( )
( )
(n) Ø n upon requ.

( )
( )
( )
( )

( )
( )
( )
( )

( ) STANDARD NPN
(K) NPN OPEN COLL
(Q) NPN
(R) NPN OPEN COLL
( )
(Z) DRIVER ET7272
( )
(N) DRIVER 26LS31

CABLE IP65

(CV) 1 m long
( )
( )

( )

CONNECTOR

( )
( )
( )
( )
( )
( )
( )
( )
( )
( )
( )
( )
( )

CABLE END CONNECTOR IP65 encoder output

(VM) 7c normal
(TM) 7c sealed
(VL) 10c normal
(TL) 10c sealed
(VD) 9c
(VH) 12c anticlock.
(VH5) 12c clock-wise
(VI) 12c crimped
(VE) 5c
(VK) 17c normal
(TK) 17c sealed
(VN) 12c
(VH6) 12c clock-wise
(VM5) 26c
(VM9) 16c
(VS) 12c
(VD5) 9c screened

OPTIONS	MODEL		PULSES/REVOL.	POWER SUPPLY (Vcc)	VERSION (2)	ELECTRONIC (2)	CONNECTION (3)	OUTPUT
	M41S	/	512	5	BZ	N	CV	

OPTIONS:
( )
( )
(Z)
(B)
(H)
( )
( )
( )
( )
( )
( )
( )
( )

MODEL:
( )
(K)
( )
(M)
( )
( )
( )
(G)
( )
( )

PULSES/REVOL.:
8,10,16,20,25,32
40,50,64,80,100
125,128,200,250
256,400,500,512
1024,2048

(multiplicable
x4 by Customer)

POWER SUPPLY (Vcc):
(5) 5 V ±5%
(824) 8÷24 V
(1828) 18÷28 V
(8245) 8÷24/5 V
(1030) 10÷30 V
(18285) 18÷28/5 V
(530) 5÷30 V
( )
( )
( )
( )
( )

VERSION (2):
( )
( )
(BZ)
( )

ELECTRONIC (2): Bidirectional + zero

OUTPUT:
AX ( )
RAD (R)

(2) For further information see ELECTRONIC data sheet
(3) For further information see CONNECTION data sheet

Product manufactured according to UNI EN ISO 9001:2008, supplied with CHECKING and CONFORMITY declaration with CE mark and with TWO (2) YEARS WARRANTY starting from delivery date.

elcis
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* e-mail: info@elcis.com
* Fax: +39 011 712613