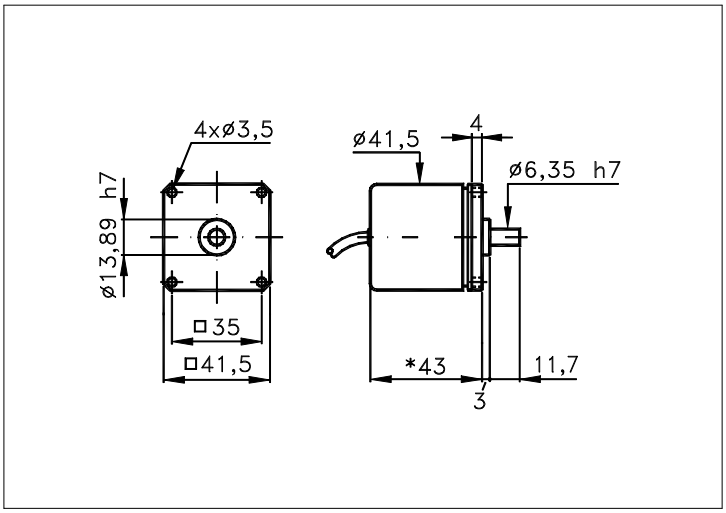
INCREMENTAL ENCODER **I/41Q**	MINIATURE ENCODER WITH METALLIC CONTAINER, SIMILAR TO MOD. 41S, BUT WITH SQUARE FLANGE.	Incremental page: 01. 41Q 1/2 data sheet . II 094 E00

Sized draw standard version: CV Measures without tolerance according to UNI ISO 2768-mk



* 53 FOR ELECTR. THAT ARE NOT 'STANDARD', 'K'.

TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

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

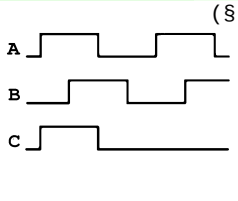
IP shaft side..(°).>	std. 64	sealed 66	low torq. 53
opt. type (page 2).>	standard	Z	B
Contin. max RPM(**)>	6000	3000	12000
Starting torque gcm>	12	30	8

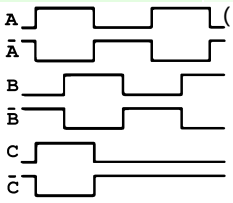
- **Ball bearings life...**: 1,5 x 10^9 revolutions
- **Impact resistance....**: 50 G x 11ms
- **Vibration resistance.**: 12 G (10 ÷ 2000 Hz)
- **Power supply.....**: 5÷30V (see page 2)
- **Operating temperature**: 0 ÷ 70 °C (*)
- **Storage temperature..**: -30 ÷ 85 °C
- **N° of pulses/rev.....**: 1 ÷ 2540
- **Max frequency.....**: 60 kHz (100 option)
- **Max consumptions mA..**: std 120 line driver 180 (*)
- **Light source.....**: LED with >= 100000 h life

(°) IP according to CEI EN 60529,EN 60529,IEC 529
(*) custom options
(**) intermittent max RPM + 30% of continuous max RPM

ELECTRONICS

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
	STANDARD NPN	10	N	DRIVER 26LS31	30						
K	NPN OPEN COLL	10	T	TTL 7404	10						
Q	NPN	70	C	DRIVER 88C30	20						
R	NPN OPEN COLL	70									
P	PNP	70									
U	PNP OPEN COLL	70									
B	PUSH-PULL PRO	70									
H	PUSH-PULL	70									
		(§)			(§)			(§)			(§)





Tolerance between phases ± 25° , symmetry ± 15°

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

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POSSIBLE OPTIONS

CODE	DESCRIPTION	CODE	DESCRIPTION
L	Low temperature	K	Invert. phase A,B,Zero.
Y	Unbreakable disk	J	Zero logic combination
Z	Sealed ball bearing	M	Impregnated electronic
B	Low torque ball bear.	A	High temperature
H	Different shaft Ø		
R	75 KHz frequency		
V	100 KHz frequency		
		G	Tropicalization
X	Custom options		

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

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( )
(n) Ø n upon requ.

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( )
( )
( )

( )
( )
( )
( )

( ) STANDARD NPN
(K) NPN OPEN COLL
(Q) NPN
(R) NPN OPEN COLL
(P) PNP
(U) PNP OPEN COLL
(B) PUSH-PULL PRO
(H) PUSH-PULL
(N) DRIVER 26LS31
(T) TTL 7404
(C) DRIVER 88C30
( )
( )
( )
( )
(X) CUSTOM OPTION
( )
( )

CABLE IP65

(CV) 1 m long
( )
( )

TERMINAL BOX IP00

( )

CONNECTOR

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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.(1)	/	POWER SUPPLY	/	VERSION (2)	/	ELECTRONIC (2)	/	CONNECTION (3)	/	OUTPUT
41Q		/	500	/	5	/	BZ	/	N	/	CV	/	

(L)
(Y)
(Z)
(B)
(H)
(R)
(V)
( )
( )
( )
( )
(X)

( )
(K)
(J)
(M)
(A)
( )
( )
(G)
( )
( )
( )
( )

1 ÷ 2540

(Vcc)

(5) 5 V ±5%
(824) 8÷24 V
(1828) 18÷28 V
(815) 8÷15 V
(12) 12 V ±5%
(24) 24 V ±5%
(1230) 12÷30/12 V
(8245) 8÷24/5 V
(1030) 10÷30 V
(18285) 18÷28/5 V
(1530) 15÷30/15 V
( )

(M) Monodirectional
(B) Bidirectional
(BZ) Bidirectional + zero
(MZ) Monodirectional + zero

AX ( )
RAD (R)

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

NOTE: FOR 88C30 MAX 15Vdc

(1) For further information see PULSES/REVOL. data sheet
(2) For further information see ELECTRONIC data sheet
(3) For further information see CONNECTION data sheet

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