

INCREMENTAL
MAGNETIC
ENCODER

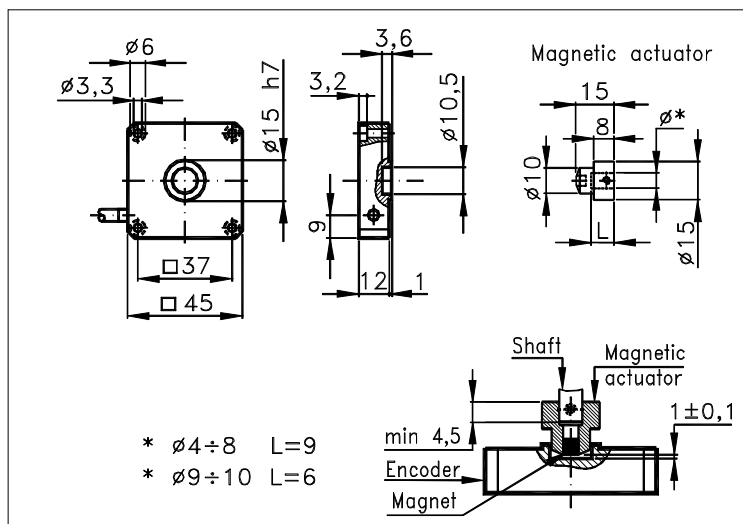
M45NC

MINIATURE MAGNETIC ENCODER WITHOUT CONTACT BETWEEN THE ROTATING SHAFT AND TRANSDUCER' BODY. HIGH PROTECTION DEGREE AND IMMUNITY TO OILS, LIQUIDS ETC.. FIT FOR HIGH SPEED APPLICATIONS (30000 rpm).

Family: **M**
page: 02.M45NC 1/2
data sheet . IR 029 E00

Sized draw standard version: CV

Measures without tolerance according to UNI ISO 2768-mk



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- | | |
|--|---|
| <ul style="list-style-type: none"> - Base.....: ALUMINIUM - Cover.....: ALUMINIUM - Weight.....: 150 g - Shaft.....: HOLLOW Ø4÷10 (WITH MAGNET) - Max.rad/axial load.: - - IP output side.(°): see 'CONNECTION' of page 2 - IP shaft side..(°).> std. 67 sealed - low torq - - opt. type (page 2).> standard - Contin. max RPM(**)> 30000 - Starting torque gcm> - | <ul style="list-style-type: none"> - Ball bearings life....: 1,5 x 10⁹ 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 (*) - 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	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
K	STANDARD NPN	10	N	DRIVER 26LS31	35						
Q	NPN OPEN COLL	10									
R	NPN OPEN COLL	70	Z	DRIVER ET7272	30						
		70									

(S)	(S)	(S)	(S)
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Tolerance between phases $\pm 45^\circ$, symmetry $\pm 15^\circ$

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



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POSSIBLE OPTIONS		POSSIBLE CONNECTIONS	
CODE	DESCRIPTION	CODE	DESCRIPTION
H	Different shaft Ø	K	Invert. phase A,B,Zero
		M	Impregnated electronic
		G	Tropicalization
		CABLE	
		CV	OUTPUT: AX RAD
		CONNECTOR	
		OUTPUT:	
		CABLE END CONNECTOR	
		OUTPUT:	
		VM VE VD5	TM VK VD5
		VL TK VN	TL VN
		VD VH VM5 VM9 VS	AX RAD
		TERMINAL BOX	
		OUTPUT:	
ORDERING INFORMATION			

ORDERING INFORMATION

Possible shaft Ø		() STANDARD NPN	CABLE IP65		CONNECTOR		CABLE END CONNECTOR IP65 encoder output	
(4) Ø 4	(K) NPN OPEN COLL	(CV) 1 m long	()	(VM) 7c normal	()	()	()	
(5) Ø 5	(Q) NPN	()	()	(TM) 7c sealed	()	()	()	
(6) Ø 6	(R) NPN OPEN COLL	()	()	(VL) 10c normal	()	()	()	
(8) Ø 8	(Z) DRIVER ET7272	()	()	(TL) 10c sealed	()	()	()	
(10) Ø 10	(N) DRIVER 26LS31	()	()	(VD) 9c	()	()	()	
(n) Ø n upon requ.	()	()	()	(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	VERSION (2)	ELECTRONIC (2)	CONNECTION (3)	OUTPUT
M45NC	512	5	BZ	N	CV		
()	(K)	8,10,16,20,25,32	(5) 5 V ±5%	()	()	AX	()
()	()	40,50,64,80,100	(824) 8÷24 V	(BZ)	Bidirectional + zero	RAD	(R)
()	(M)	125,128,200,250	(1828) 18÷28 V	()			
(H)	()	256,400,500,512	(8245) 8÷24/5 V	()			
()	()	1024,2048	(1030) 10÷30 V	()			
()	(G)	(multiplicable x4 by Customer)	(18285) 18÷28/5 V	()			
()	()		(530) 5÷30 V	()			
()	()		()	()			
()	()		()	()			
()	()		()	()			
()	()		()	()			

(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.