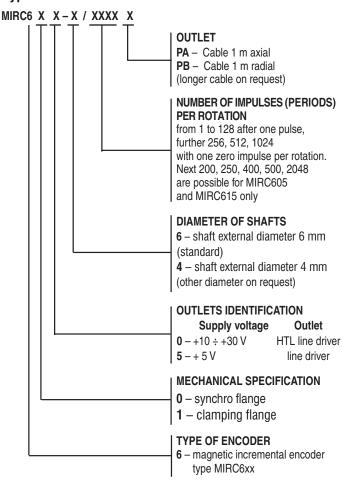


Magnetic incremental encoders MIRC600, 605, 610 and 615

MIRC60x - synchro flange, external diameter of the shaft 6 mm MIRC61x - clamping flange, external diameter of the shaft 6 mm

The magnetic incremental rotary encoders type MIRC600, 605, 610 and 615 working on magnetic Hall Effect principle. The encoder converts rotary motion to electrical incremental signals. Electrical signals provide information of bilateral position of two mechanical parts, angle turn or rotary motion. A typical use is in conjunction with digital control system or drivers for control of the electric motors.

Type identification



Technical data

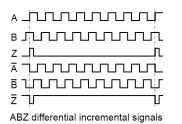
ELECTRICAL DATE / TYPE	MIRC600, 610	MIRC605, 615	
Impulses (periods) per rotation	1 to 1024	1 to 2048	
Resolution (positions per revolution) = impulses x 4	Up to 4096	Up to 8192	
Supply voltage max. U _N (V)	from +10 to +30	+ 5 ± 5%	
Supply current max. I _N (mA)	60@30V	50	
Output frequency max. F _O (kHz)	200		
Output max. I _o (mA)	± 25	± 20	
Output	HTL line driver	line driver (RS 422)	

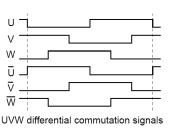


Mechanical data and working conditions

oaoa. aasa aasa soomaa goomaasooo				
10000 min. ⁻¹				
40000 rad.s ⁻²				
10 g.cm ² ± 10 %				
10g _n (10 to 2000 Hz)				
50g _n (100 ms)				
10 N				
10 10				
20 N				
-				
20 N				
20 N - 25° to + 80° C				
20 N - 25° to + 80° C max. 95 % / max. 40 g.m ⁻³				
20 N - 25° to + 80° C max. 95 % / max. 40 g.m ⁻³ 73,3 to 126,6 kPa				

Output signals MIRC600, 605 / MIRC610, 615

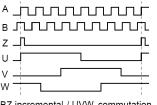


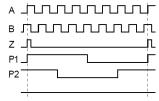


Number of incremental impulses (periods) per rotation: from 1 to 128 after one pulse, further 256, 512, 1024 with one zero impulse per rotation. Next 200, 250, 400, 500, 2048 are possible for MIRC605 and MIRC615 only. Resolution in positions = Number impulses per rotation (lines) x 4.

MIRC605 / MIRC615

only and into resolution 1024 impulses (without 200, 250, 400 and 500 impulses)





ABZ incremental / UVW commutation

ABZ incremental signals/period counter

Assembly

The encoders MIRC600 and MIRC605 are installed into appropriate equipment using 4xM3 screws on dia. 26 mm or a groove. The position of the shaft is explicitly determined by a fitted diameter of 33h7. The encod-

Description of connection elements MIRC600, 605, 610 and 615

Colors of connection cable	Significance				
	Incremental	Commutation	Incr./commu.t.	Incr./counter	
Grey	B non	V non	V	P2	
Pink	Sensor + 10 to + 30 V for MIRC600, 610 Sensor + 5 for MIRC605, 615				
Blue	Z	W	Z	Z	
Violet	Z non	W non	W	NC	
Yellow	Α	U	A	A	
White	A non	U non	U	P1	
_	NC				
Green	В	V	В	В	
Shield	Shield				
Black	GND				
Brown	Sensor 0 V				
Red	$U_N + 10 \text{ V to} + 30 \text{ V for MIRC600, 610} $ $V_{cc} + 5 \text{ V for MIRC605, 615}$				

Assembly – continued from previous page

ers MIRC610 and MIRC615 are fixed into the equipment by 2xM3 screws on dia. $22,0\pm0,15$ mm. Centering of encoder is determined by mat fits diameter 15h7. The connection has to be constructed so as to avoid exceeding the maximum radial or axial shaft load permitted. It is necessary to keep alignment connection. It is recommended to use suitable homokinetic diaphragm couplings.

When temperature is less then -5° C cable must be fixed.

How to order?

Please indicate encoder type, number of impulses per rotation, outlet, number of pieces, delivery term and other non-standard features. Connecting cable and homokinetic diaphragm couplings can be ordered as well [see Accessories catalogue list].

Example

20 pcs MIRC615/2048PB and 20 pcs coupling SP9. Delivery term - two weeks.

Dimensioned drawing

MIRC600, 605

MIRC610, 615

