

Encoders

optical Encoder, digital outputs, 2 channels, 50 lines per revolution

For combination with DC-Micromotors **Brushless DC-Motors**

Series PA2-50

		PA2-50	
Lines per revolution	N	50	
Frequency range, up to ¹⁾	f	35	kHz
Signal output, square wave		2	Channels
Supply voltage	UDD	2,7 3,3	V
Current consumption, typical ²⁾	I DD	8,5	mA
Output current, max.	Ιουτ	8	mA
Pulse width	Р	180 ± 50	°e
Phase shift, channel A to B	Φ	90 ± 45	°e
Logic state width	5	90 ± 50	°e
Cycle	С	360 ± 36	°e
Signal rise/fall time, max. (CLOAD = 25 pF)	tr/tf	0,3 / 0,1	μs
Inertia of code disc	J	0,02	gcm ²
Operating temperature range		-30 +85	°C

¹⁾ Velocity (min⁻¹) = f (Hz) x 60/N²⁾ U_{DD} = 3 V: with unloaded outputs

For combination with Motor		
Dimensional drawing A	<l1 [mm]<="" td=""><td></td></l1>	
0615 S - K1655	19,2	
	,_	
Dimensional drawing B	<l1 [mm]<="" td=""><td></td></l1>	
0620 B - K1719	23,0	
Dimensional drawing C	<l1 [mm]<="" td=""><td></td></l1>	
0816 SR - K2565	24,0	

Characteristics

These incremental shaft encoders in combination with the DC-Micromotors and Brushless DC-Servomotors are designed for both indication and control of both shaft velocity and direction of rotation as well as for positioning.

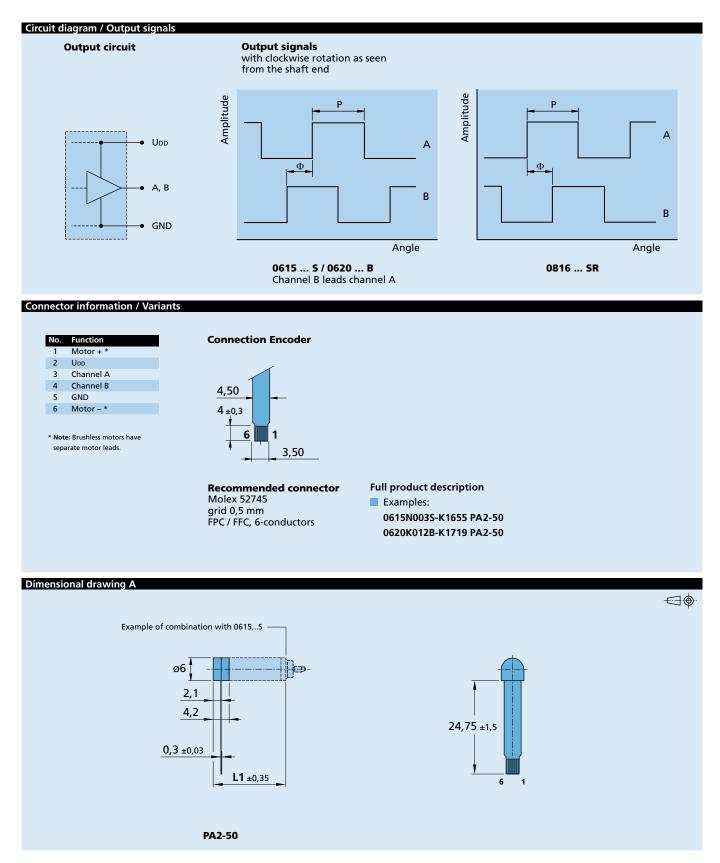
An all-in-one emitter and detector chip transmits and receives LED light reflected off a low inertia reflective disc providing two channels with 90° phase shift.

The supply voltage for the encoder and the Micromotor as well as the output signals are interfaced with a flexible printed circuit (FPC).

Details for the DC-Micromotors and Brushless DC-Servomotors and suitable reduction gearheads are on separate catalog pages.

To view our large range of accessory parts, please refer to the "Accessories" chapter.





For notes on technical data and lifetime performance refer to "Technical Information". Edition 2020 Feb. 18 © DR. FRITZ FAULHABER GMBH & CO. KG Specifications subject to change without notice.



