

Encoders

optical Encoder, digital outputs, 2 channels, 100 lines per revolution

For combination with DC-Micromotors

Series PA2-100

	PA2-100	
N	100	
f	35	kHz
	2	Channels
UDD	2,7 3,3	V
IDD	8	mA
Р	180 ± 45	°e
Φ	90 ± 45	°e
5	90 ± 45	°e
С	360 ± 30	°e
tr/tf	0,1 / 0,1	μs
J	0,02	gcm ²
	-25 +85	°C
	f	N 100 f 35 2 2 U_{DD} 2,7 3,3 Ioo 8 P 180 ± 45 ϕ 90 ± 45 S 90 ± 45 C 360 ± 30 tr/tf 0,1 / 0,1 J 0,02

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

For combination with Moto	or	
Dimensional drawing A	<l1 [mm]<="" td=""><td></td></l1>	
1016 SR - K2565	23,7	
1024 SR - K2565	31,7	
Dimensional drawing B 1224 SR - K1752	<l1 [mm]<="" td=""><td></td></l1>	
1224 SR - K1752	31,1	

Characteristics

These incremental shaft encoders in combination with the DC-Micromotors 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.

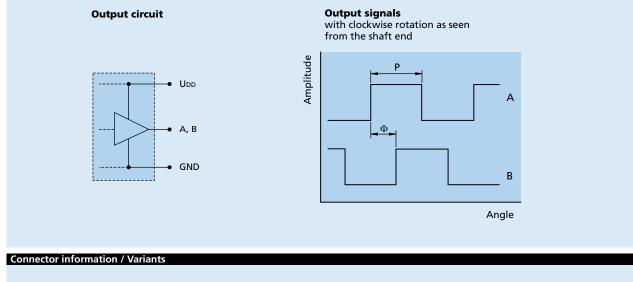
The supply voltage for the encoder and the Micromotor as well as the output signals are interfaced with a flexible printed circuit (FPC).

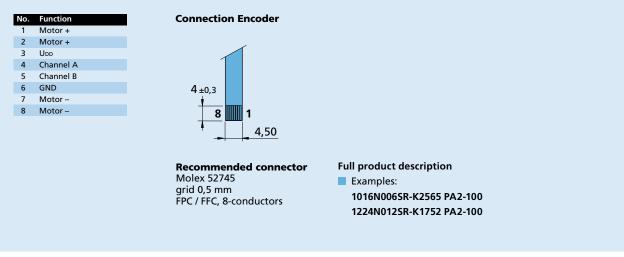
Details for the DC-Micromotors and suitable reduction gearheads are on separate catalog pages.

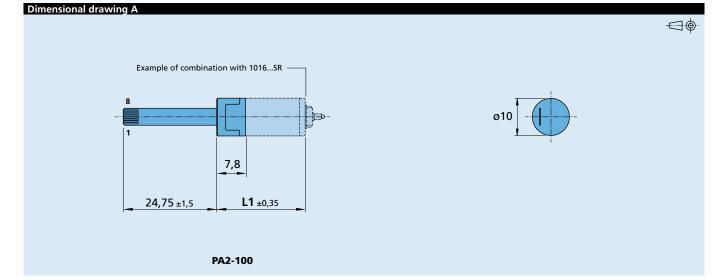
To view our large range of accessory parts, please refer to the "Accessories" chapter.



Circuit diagram / Output signals







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.



