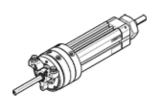
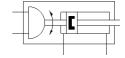
swivel/linear unit DSL-25-50-270-P-A-S20-B Part number: 556477

FESTO

For proximity sensing. Rotary and linear movement can be actuated independently of one another. Rotary movement of 0° - 270° infinitely





Data sheet

Feature	Value
Rotation angle adjustment range	0 270 deg
Stroke	50 mm
Piston diameter	25 mm
Swivel angle	0 272 deg
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Fine adjustment	-6 deg
Mode of operation	double-acting
Design structure	Rotary vane
Position detection	For proximity sensor
Variants	Through, hollow piston rod
Protection against torque/guide	with plain-bearing guide
Operating pressure	2.5 8 bar
Max. impact speed	500 mm/s
Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)	2 Hz
Swivel angle backlash	2 deg
Repetition accuracy	1 deg
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further
	operation)
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364-B2-L
Ambient temperature	-10 60 °C
Dynamic load torque	0.45 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	173.5 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	246 N
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	5 Nm
Permissible mass moment of inertia	0.00011 kgm2
Product weight	1,500 g
Basic weight for 0 mm stroke	1,500 g
Additional weight per 10 mm stroke	67 g
Mounting type	Clamped in T-slot
	with external (male) thread
	Optional
Pneumatic connection	M5
Material cover	Wrought Aluminium alloy
	Anodised
Material seals	TPE-U(PU)
Material housing	Wrought Aluminium alloy
	Smooth anodised
Material piston rod	Heat-treatment steel