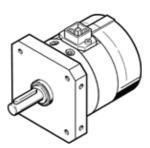
Swivel module **DSMI-40-270** Part number: 192271

FESTO

with integrated displacement encoder.



Data sheet

Feature	Value
Cushioning angle	2.2 deg
Rotation angle adjustment range	0 270 deg
Stroke shortening in the end-positions	5°
Smallest positioning stroke	5° for positioning
	15° with Soft Stop
Piston diameter	40 mm
Swivel angle	272 deg
Cushioning	P: Flexible cushioning rings/plates at both ends
Mounting position, positioning	Any
Mounting position, soft stop	Horizontal
Measuring method: displacement encoder	Analogue
Design structure	Drive shaft with ball bearing
	Rotary vane
Position detection	For proximity sensor
	With integrated angular displacement encoder
Operating pressure, positioning / soft stop	4 8 bar
Max. swivel frequency at 6 bar	2 Hz
Max. travel speed	2,000 deg/s
Min. travel speed	50 deg/s
Typical short stroke positioning time, horizontal	0,25/0,25 s
Typical long stroke positioning time, horizontal	0,30/0,55 s
Connection resistance	5 kOhm
Recommended wiper current	< 1 μA
Mode of operation	double-acting
Max. operating voltage, DC	42 V
Max. intermittent wiper current	10 mA
Max. current consumption	4 mA
Nominal operating voltage DC	10 V
Connection resistance tolerance	20 %
Permissible voltage fluctuation	<1%
Operating medium	Filtered, unlubricated compressed air, 5 µm filtration
CE mark (see declaration of conformity)	to EU directive for EMC
Continuous shock resistance per DIN/IEC 68, parts 2 - 82	Tested in accordance with severity level 2
Corrosion resistance classification CRC	1
Protection class	IP65
	to IEC 60529
Vibration resistance per DIN/IEC 68, parts 2 - 6	Tested in accordance with severity level 2
Ambient temperature	-10 60 °C
Impact energy in end positions	0.1 Nm
Torque at 6 bar	20 Nm
Max. axial force	120 N
Max. mass moment of inertia, horizontal	0.12 kgm2
Max. mass moment of inertia, vertical	0.12 kgm2
Max. radial force	350 N



Feature	Value
Min. mass moment of inertia, horizontal	0.006 kgm2
Min. mass moment of inertia, vertical	0.006 kgm2
Product weight	3,750 g
Angle resolution	<= 0.1 deg
Output signal	Analogue
Independent linearity	0,0025
Repetition accuracy, positioning	+/- 0,3 deg
Repetition accuracy, soft stop end-position	< 0,2 deg
Repetition accuracy, soft stop intermediate position	+/- 2 deg
Electrical connection, displacement encoder	4-pin
Mounting type	with internal (female) thread
Pneumatic connection	G1/8
Material information, measuring system housing	Wrought Aluminium alloy
	Anodised
Materials note	Free of copper and PTFE
Material information, stop lever	Wrought Aluminium alloy
	Anodised
Materials information for drive shaft	Steel
	Nickel plated
Material information, fixed stop	Steel
	Galvanised
Materials information, housing	Wrought Aluminium alloy
	Anodised
Material information, cap	PA-reinforced
Material information, measuring system interface	TPE-U(PU)
Material information, woodruff key	Steel
Material information, rotary vane	PET-reinforced
Material information, plug housing	PA-reinforced
Materials information for cylinder barrel	Wrought Aluminium alloy