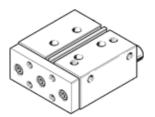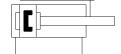# Guide cylinder
DFM-12-30-P-A-GF-F1A
Part number: 8118626

FESTO

The proximity switch, type SMTSO-8E, can be used with this product with stroke lengths of 20 to 40 mm only when the corresponding mounting kit, type SMB-8E, is mounted outwardly.

Data sheet

Feature	Value
Centre of gravity distance from working load to yoke plate	25 mm
Stroke	30 mm
Piston diameter	12 mm
Operating mode of drive unit	Yoke
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Guide	Plain-bearing guide
Design structure	Guide
Position detection	For proximity sensor
Variants	Recommended for production facilities for the manufacture of lithium-ion batteries
Operating pressure MPa	0.2 ... 1 MPa
Working pressure	2 ... 10 bar
Max. speed	0.8 m/s
Mode of operation	double-acting
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	0 - No corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 8
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	0.07 Nm
Max. force Fy	240 N
Max. force Fy static	240 N
Max. force Fz	240 N
Max. force Fz static	240 N
Max. torque Mx	4.92 Nm
Max. torque Mx static	4.92 Nm
Max. torque My	2.06 Nm
Max. torque My static	2.06 Nm
Max. torque Mz	2.06 Nm
Max. torque Mz static	2.06 Nm
Max. permissible torque load Mx as a function of the stroke	0.63 Nm
Max. useful load as a function of the stroke at defined distance xs	22 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	51 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	68 N
Moving mass	200 g
Product weight	435 g
alternative connections	See product drawing
Pneumatic connection	M5
Materials note	Conforms to RoHS

Feature	Value
Material cover	Wrought Aluminum alloy
Material seals	NBR
Material housing	Wrought Aluminum alloy
Material piston rod	High alloy steel, non-corrosive