AUTOMATION TRADER

DGSL-8-50-E3-Y3A

Industrial automation components

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Manufacturer	Festo
Catalog number	dgsl-8-50-e3-y3a
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Stroke Length	50 mm
Adjustable End-Position Range (Front)	31 mm
Adjustable End-Position Range (Rear)	14 mm
Piston Diameter	10 mm
Operating Mode	Double-acting
Drive Unit	Yoke
Cushioning	Progressive pneumatic shock absorbers at both ends
Guide	Ball bearing cage guide
Position Sensing	Via proximity switch
Operating Pressure	1.5 to 8 bar
Max Speed	0.8 m/s
Ambient Temperature	0 to 60 °C

Description

The Festo DGSL-8-50-Y3A is a high-precision pneumatic mini slide actuator designed for applications requiring compact size and reliable performance. With a stroke length of 50 mm and an adjustable end-position range of 31 mm at the front and 14 mm at the rear, it offers flexibility in positioning. The 10 mm piston diameter ensures efficient force transmission. Operating in a double-acting mode, it

utilizes a yoke drive unit for enhanced stability. The actuator features progressive pneumatic shock absorbers at both ends, providing smooth operation and reducing impact forces. Its ball bearing cage guide ensures high linear and parallel precision, contributing to its high repetition accuracy of ±0.01 mm. The actuator operates within a pressure range of 1.5 to 8 bar (0.15 to 0.8 MPa) and supports a maximum speed of 0.8 m/s. Suitable for ambient temperatures between 0°C and 60°C, it is constructed with a wrought aluminum alloy housing and high-alloy stainless steel piston rod, ensuring durability and resistance to corrosion. The actuator is RoHS compliant and conforms to VDMA24364-B1/B2-L for LABS (PWIS) conformity, making it suitable for cleanroom environments up to ISO 14644-1 Class 7. Position sensing is facilitated via proximity switches, and the actuator is designed for easy mounting with through-hole options. The pneumatic connection is M3, and the actuator is compatible with compressed air as per ISO 8573-1:2010 [7:4:4].