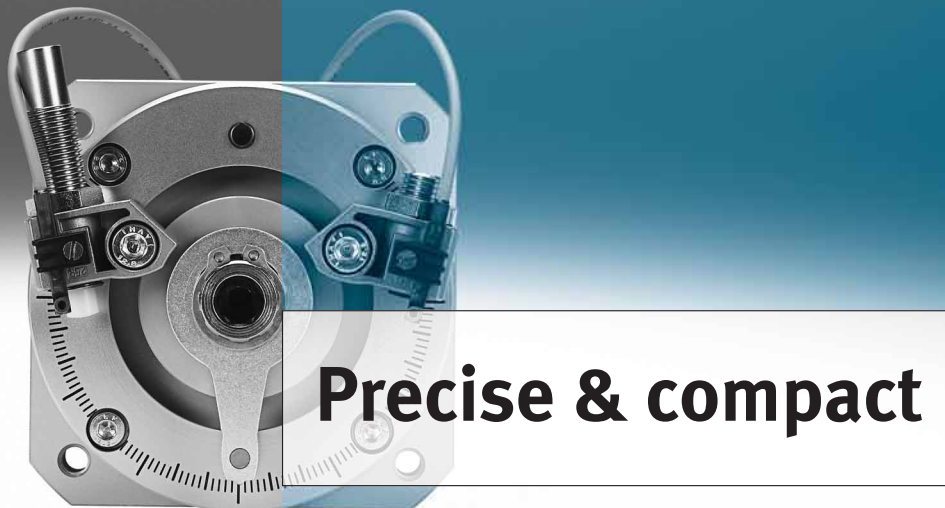


# Swivel module Rotary drive DSM-B

FESTO



**DSM-B: the world's only semi-rotary drive with fixed stop. For guaranteed maximum energy absorption and highest precision over 10 million cycles. Now with space-saving sensor technology.**

#### **Reliable, flexible and precise angle setting**

For any angle up to 270°. Simply adjust the two cushioning mounts independently of each other and clamp them in the slot. Then fine adjust them using the internal hex. The projecting metal sleeve acts as an end stop, ensuring maximum precision of the adjustable buffers and the shock absorbers.

#### **Optimal triple cushioning**

You choose! For low energy absorption and fast cycle times: elastomer buffers. For maximum energy absorption and highest

repetition accuracy of 0.1°: hydraulic shock absorbers. For fast cycle times and outstanding repetition accuracy with medium energy absorption: the new, adjustable elastomer cushioning.

#### **Space-saving sensing**

A magnet is inserted in a small recess in the stop lever. This allows proximity switches of types SM...-10F or SM...-8M for size 63 to be used. A cost-effective and space-saving sensing solution that is quick and easy to fit thanks to the unique sensor bracket.



Precise

Space-saving

Flexible cushioning

147.1.PSI →

Product Short Information

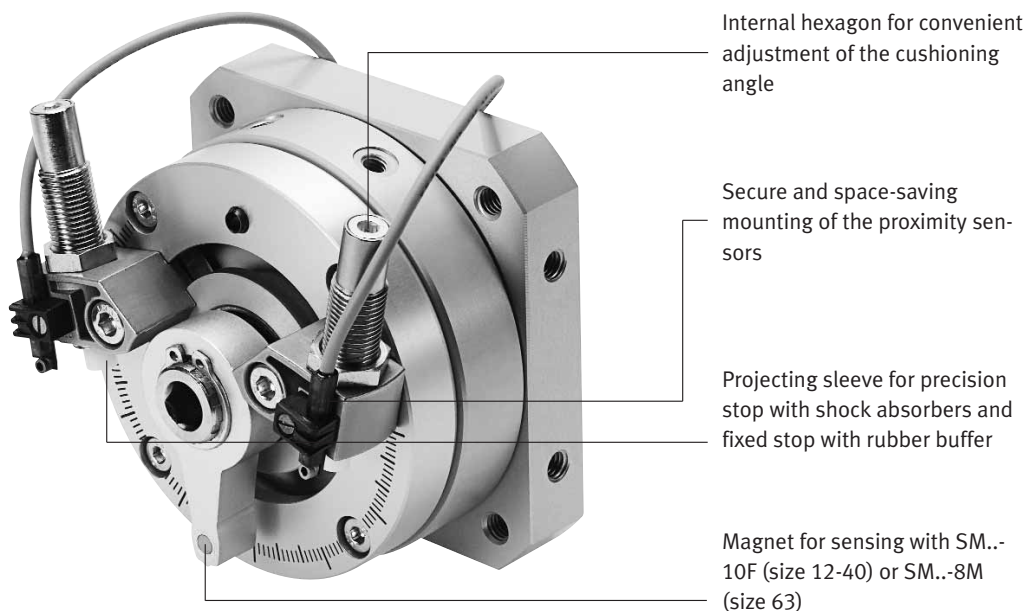
# Swivel module

## Rotary drive DSM-B

### Series

Sizes: 12, 16, 25, 32, 40, 63  
 Cushioning: Elastic, adjustable elastic, hydraulic  
 Drive shaft: Spigot shaft or flanged shaft  
 Sensing: Sensing option (swivel lever with integrated magnet)

Size	12	16	25	32	40	63	
<b>Angle range</b>							
Elastomer cushioning (P)	[°]	270					
Adjustable elastomer cushioning (P1)	[°]	246			240		
Hydraulic shock absorber (CC)	[°]	238		246	240		
<b>Precision angle adjustment on each side:</b>							
Elastomer cushioning (P)	[°]	-6					
Adjustable elastomer cushioning (P1)	[°]	-6					
Hydraulic shock absorber (CC)	[°]	-3					
<b>Permissible mass moment of inertia:</b>							
Elastomer cushioning (P)	[x10 <sup>-4</sup> kgm <sup>2</sup> ]	0.35	0.7	1.1	1.1	2.4	20
Adjustable elastomer cushioning (P1)	[x10 <sup>-4</sup> kgm <sup>2</sup> ]	1.05	2.1	3.3	5.1	7.2	60
Hydraulic shock absorber (CC)	[x10 <sup>-4</sup> kgm <sup>2</sup> ]	7	12	16	21	40	160
<b>Torque transmission (approximate values):</b>							
Theoretical torque at 6 bar	[Nm]	1.25	2.5	5	10	20	40
<b>Repetition accuracy in end position (data relates to the service life of the drive):</b>							
Elastomer cushioning (P)	[°]	<1					
Adjustable elastomer cushioning (P1)	[°]	<0.1					
Hydraulic shock absorber (CC)	[°]	<0.1					
<b>Max. permissible frequency at max. swivel angle:</b>							
Elastomer cushioning (P)	[Hz]	2					1.6
Adjustable elastomer cushioning (P1)	[Hz]	2					1.6
Hydraulic shock absorber (CC)	[Hz]	1.5	1		0.7		0.6



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