Stop elements YSRWJ

Peripherals overview and type codes

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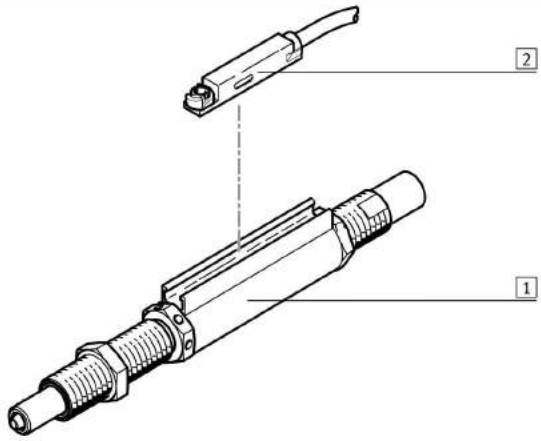
Peripherals overview



Accessories

	Type	Brief description	→ Page/Internet
1	Stop element YSRWJ	Hydraulic shock absorber with progressive cushioning characteristic. The cushioning length is adjustable	35
2	Proximity switches SME-/SMT-8	Sensing option for end positions	45

Type codes

YSRWJ	–	7	–	10	–	A

Type

YSRWJ	Shock absorber

Size

Stroke [mm]

Position sensing

A	Position sensing

Stop elements YSRWJ

Technical data

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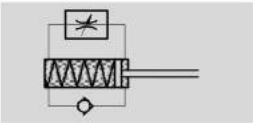
Function



Size
5 ... 8 mm

Stroke length
7.5 ... 13.5 mm

General technical data				
Size		5	7	8
Stroke	[mm]	8	10	14
Mode of operation		A piston rod in front of the shock absorber transmits the force to the shock absorber. This serves as the end stop and actuates the proximity sensor via a magnet mounted on it		
		Single acting, pushing		
Cushioning		Self-adjustable		
Cushioning length	[mm]	8	10	14
Type of mounting		With locknut		
Position sensing		Via proximity sensor		
Impact velocity	[m/s]	0.05 ... 2	0.05 ... 3	
Repetition accuracy	[mm]	0.02		
Mounting position		Any		
Product weight	[g]	45	75	110
Ambient temperature	[°C]	0 ... +60		
Corrosion resistance class CRC[1]		2		

1) Corrosion resistance class 2 to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

Reset time [s]			
Size	5	7	8
Reset time[1]	≤ 0.2		

1) The specified technical data refers to ambient temperature. At higher temperatures in the 80 °C range, the max. mass and the cushioning work must be reduced by 50% approx.
At 0 °C, the reset time may be up to 1 second

Forces [N]			
Size	5	7	8
Min. insertion force[1]	5	18	80
Max. stop force[2] in end positions	200	300	500
Min. resetting force[3]	1.5	2	3.5

1) This is the minimum force that must be applied so that the shock absorber is pushed exactly into the retracted end position
2) Impact force may not exceed the maximum specified value
3) This is maximum force that can be exerted on the piston rod so that the shock absorber advances fully

Energies [J]			
Size	5	7	8
Max. energy absorption per stroke	1	2	3
Max. energy absorption per hour	10,000	15,000	21,000
Max. residual energy	0.01		0.02

Mass range [kg]			
Size	5	7	8
Permissible mass range up to	2	5	10

Stop elements YSRWJ

Technical data

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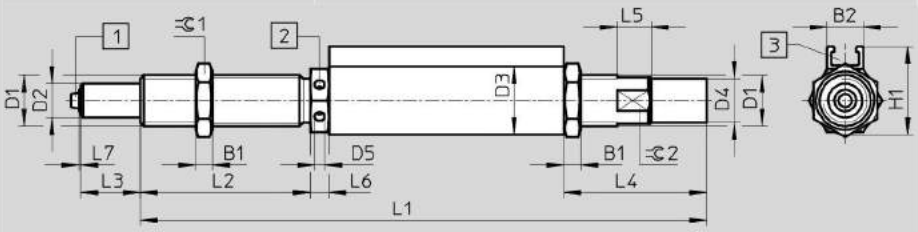
Mode of operation

1 Soft cushioning characteristics – cushioning stroke is adjustable
2 End-position sensing via proximity sensor SME-/SMT-8 that can be integrated
3 Precision end-position adjustment
4 Precision end position thanks to internal, metallic inserts

Dimensions

Download CAD data ➔ www.festo.com



1 Rubber buffer, only with sizes: YSRWJ-7-10-A and YSRWJ-8-14-A
2 Precision end-position adjustment
3 Slot for proximity sensor SME-/SMT-8

Size [mm]	B1	B2 +0.4	D1	D2	D3 +0.1	D4	D5 +0.1	H1 +0.3	L1 +0.3/–0.1
5	3	8.1	M8x1	4	12	6.7 ±0.05	2	16.5	97.4
7	3.5	8.5	M10x1	6	14	8.6 ±0.05	2.4	18.3	144.8
8	4	8.5	M12x1	8	16	10.4 ±0.1	2.4	20.75	133.3

Size [mm]	L2 +0.4	L3	L4 +0.45/–0.1	L5 +0.5	L6 +0.1/–0.55	L7 +0.3	⊂1	⊂2	Max. tightening torque ⊂1 [Nm]
5	32.5	8 +0.7/–0.55	21.6	5	4.4	0.5	10	7	2
7	40	10 +0.8/–0.55	21.1	6	4	0.5	13	9	3
8	40	14 +0.8/–0.55	33.6	8	4.4	0.5	15	11	5

Ordering data

Size [mm]	Part No.	Type
5	**192968**	**YSRWJ-5-8-A**
7	**192967**	**YSRWJ-7-10-A**
8	**192966**	**YSRWJ-8-14-A**