

Hinge cylinders DFAW

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Hinge cylinders DFAW

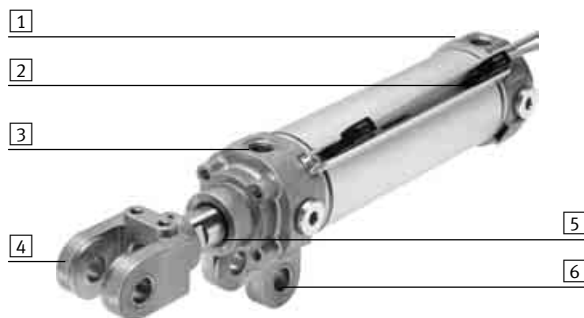
Key features

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At a glance

- Hinge cylinder for clamping components during the welding process
- Sintered bronze bushes as low-friction bearing material on rod clevis and swivel bearing
- Clamping unit:
 - With piston rod in retracted position (CE)
 - With piston rod in advanced position (CR)
- Integrated flow control
- Integrated, self-adjusting end-position cushioning (PPS)
- Rod wiper seal to protect against welding spatter
- Easy to mount thanks to swivel bearing on the bearing cap
- Asian automotive standard for car body production

The technology in detail

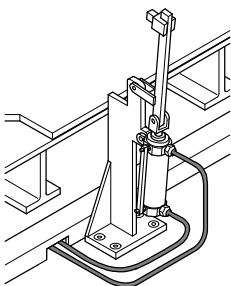


- 1 Adjustable, integrated flow control at both ends
- 2 Sensing options:
 - Via mounting bracket
 - Via sensor rail:
 - Sensor rail with T-slot, for proximity sensor:
 - SDBT-BSW
 - SMT-8
 - Sensor rail with hexagonal design
- 3 Pneumatic connection options on 3 sides
- 4 Choice of 4 rod clevis gaps
- 5 Metal wiper seal to protect against welding spatter
- 6 Swivel bearing on the cylinder

Clamping unit with piston rod in retracted position (CE)



- In the depressurised state, the piston rod can be clamped in any desired position, preventing it from advancing
- The clamping unit is unlocked automatically while advancing. No separate control is required to do this
- The clamping unit can be unlocked manually using a screw under the "Remove" protective cap

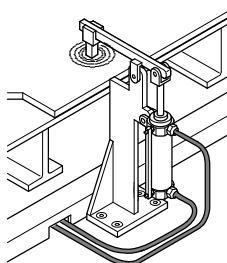


In the depressurised state, the clamping arm cannot fall onto the workpiece.

Clamping unit with piston rod in advanced position (CR)



- In the depressurised state, the piston rod can be clamped in any desired position, preventing it from retracting
- The clamping unit is unlocked automatically while retracting. No separate control is required to do this
- The clamping unit can be unlocked manually using a screw under the "Remove" protective cap



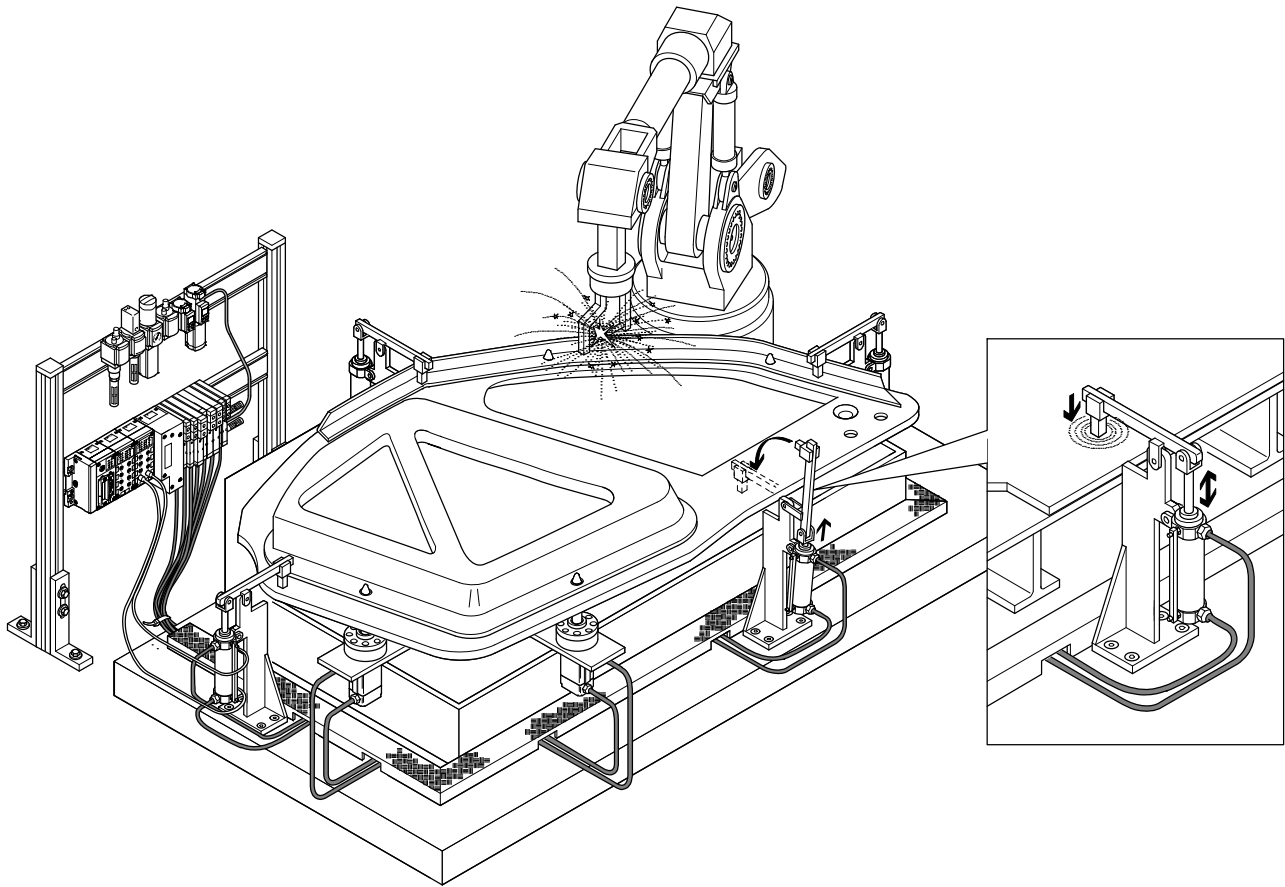
The clamped workpieces cannot slip, even in the depressurised state.

Hinge cylinders DFAW

Key features

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Use as a clamping cylinder



Hinge cylinders DFAW

Type codes

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Hinge cylinders DFAW

		DFAW	–	50	–	50	–	CR	B5	–	PPS	A
Type												
DFAW	Hinge cylinder											
Piston Ø [mm]												
...	50, 63, 80											
Stroke [mm]												
...	50, 75, 100, 125, 150											
...	10 ... 200											
Clamping unit attached												
–	None											
CE	With piston rod in retracted position											
CR	With piston rod in advanced position											
Rod clevis gap/swivel bearing [mm]												
B4	16.5											
B5	18.5 (rod clevis), 16.5 (swivel bearing)											
B6	19.5											
B8	28											
Cushioning												
PPS	Pneumatic cushioning, self-adjusting at both ends											
Position sensing												
A	Via proximity sensor											

Hinge cylinders DFAW

Type codes

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Accessory: Sensor rail DASP

		DASP	–	F5	–	50	–	50	–	A	–	SR	–	S7	–	2	
--	--	------	---	----	---	----	---	----	---	---	---	----	---	----	---	---	--

Type	
DASP	Sensor rail

Allocation	
F5	Version for DFAW

Size ¹⁾	
...	50, 80

Stroke [mm]	
...	50, 75, 100, 125, 150
...	10 ... 200

Mounting component design	
A	With T-slot
H	Hexagonal

Product type	
SR	Sensor rail

Proximity sensor, magneto-resistive	
–	None
S1	Welding field immune, N/O contact, 2-wire, 5.0 m
S2	Welding field immune, PNP, M12 plug, 3-wire, 0.3 m
S3	Welding field immune, NPN, M12 plug, 3-wire, 0.3 m
S4	Welding field immune, PNP, cable, 3-wire, 5.0 m
S5	Welding field immune, NPN, cable, 3-wire, 5.0 m
S6	PNP, M8 plug, 3-wire, 0.3 m
S7	PNP, cable, 3-wire, 2.5 m
S8	PNP, M12 plug, 3-wire, 0.3 m
S9	NPN, M8 plug, 3-wire, 0.3 m
S10	N/O contact, cable, 2-wire, 5.0 m, with ATEX certification

Number of proximity sensors	
–	None
1	One
2	Two

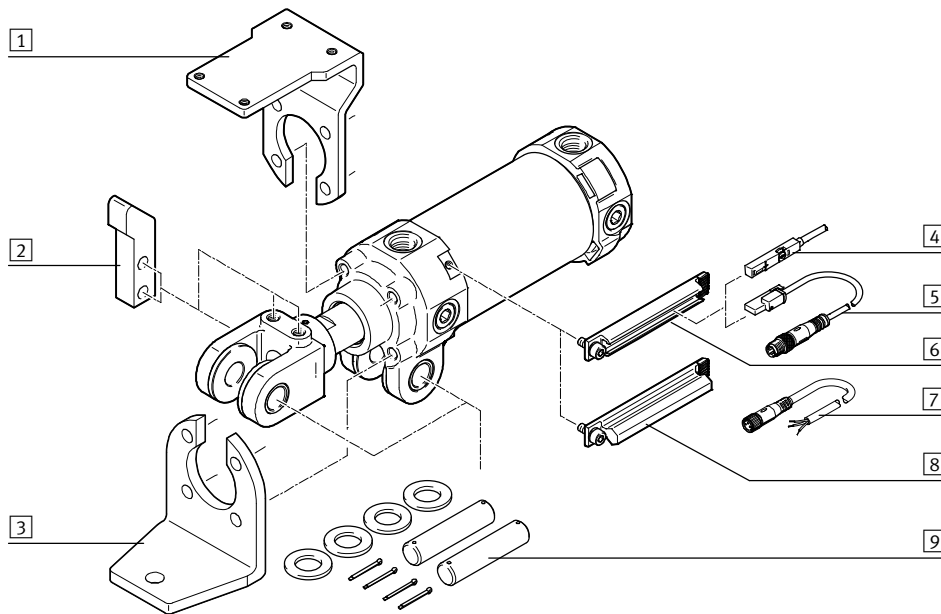
Mounting position of proximity sensor	
–	At both ends
F	Advanced end position
R	Retracted end position

1) Size 50 for DFAW-50/63
Size 80 for DFAW-80

Hinge cylinders DFAW

Peripherals overview

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Included in the scope of delivery of the cylinder:

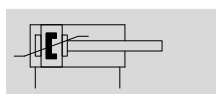
- Item 9

Accessories		
Type	Description	→ Page/Internet
1 Mounting bracket TBH	For mounting external proximity sensors (e.g. roller lever switch)	20
2 Switch lever KTH	For sensing the piston rod position via external proximity sensors	20
3 Foot mounting HNH	For mounting the cylinder	20
4 Proximity sensor SMT-8 (DASP-...-S6 ... S10)	• Proximity sensor with flat design for sensing the piston rod position • The proximity sensors are already mounted and adjusted when they and the sensor rail are ordered via the modular product system (→ page 18)	21
5 Proximity sensor SDBT-BSW (DASP-...-S1 ... S5)	• Welding field immune proximity sensor for sensing the piston rod position • The proximity sensors are already mounted and adjusted when they and the sensor rail are ordered via the modular product system (→ page 18)	21
6 Sensor rail DASP-...-A	With T-slot, for mounting the proximity sensor SDBT-BSW or SMT-8	18
7 Connecting cable NEBU	For proximity sensor with plug	21
8 Sensor rail DASP-...-H	Hexagonal design	19
9 Mounting kit DAMD	• For mounting the drive and attachments on the rod clevis • The scope of delivery of the drive includes 2 bolts, 2 retaining pins and 4 washers	21

Hinge cylinders DFAW

Technical data

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Ø Diameter
50 ... 80 mm

Stroke length
10 ... 200 mm



General technical data					
Piston Ø			50	63	80
Pneumatic connection			G1/4		G3/8
Piston rod thread			M16x1.5		M20x1.5
Piston rod end			Male thread with rod clevis		
Stroke	Standard	[mm]	50, 75, 100, 125, 150		
	Variable	[mm]	10 ... 200		
Rod clevis gap		[mm]	16.5; 18.5; 19.5		28
Design			Piston rod with rod clevis		
			Swivel mounting on bearing cap		
			Cylinder barrel		
			Piston		
Mode of operation			Double-acting		
			Pushing and pulling		
Type of mounting			Via swivel mounting on bearing cap		
			Via accessories		
Speed control			Integrated flow control at both ends		
Mounting position			Any		
Position sensing			Via proximity sensor		
Cushioning			Pneumatic cushioning, self-adjusting at both ends		
Cushioning length		[mm]	24		30

Operating and environmental conditions				
Piston Ø		50	63	80
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)		
Operating pressure				
DFAW-...		[bar]	1 ... 10	
DFAW-...-CE/-CR		[bar]	2 ... 10	–
Ambient temperature		[°C]	–10 ... +60	

Weight [g]				
Piston Ø		50	63	80
DFAW-...				
Basic weight with 0 mm stroke		1103	1339	3406
Additional weight per 10 mm stroke		37	39	64
Moving mass with 0 mm stroke		539	600	1704
Additional weight per 10 mm stroke		25	25	39
DFAW-...-CE/-CR				
Basic weight with 0 mm stroke		1652	1969	–
Additional weight per 10 mm stroke		37	39	–
Moving mass with 0 mm stroke		653	717	–
Additional weight per 10 mm stroke		25	25	–

Hinge cylinders DFAW

Technical data

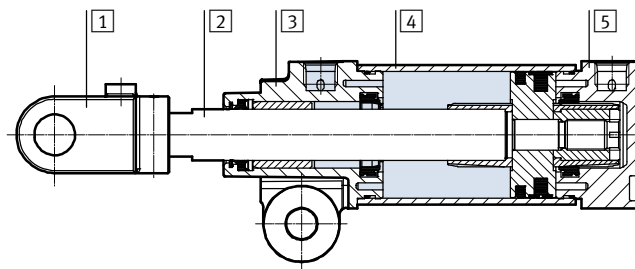
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Forces [N] and impact energy [J]			
Piston Ø	50	63	80
Theoretical force at 6 bar, advancing	1178	1870	3016
Theoretical force at 6 bar, retracting	990	1682	2721
Impact energy in the end positions	0.24	0.76	0.84

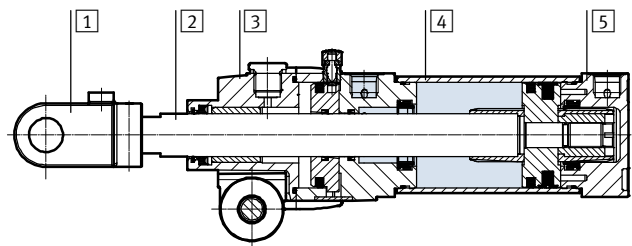
Materials

Sectional view

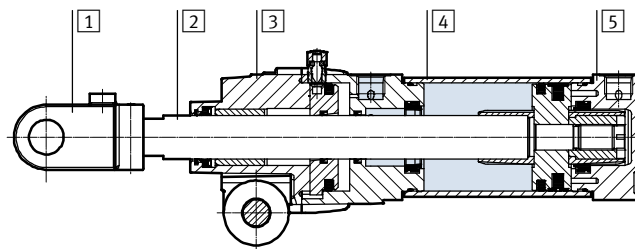
DFAW-...



DFAW-...-CE



DFAW-...-CR



Piston Ø	50	63	80
1 Rod clevis	Anodised die-cast aluminium		Cast steel
2 Piston rod	Hard-chromium plated tempered steel		
3 Bearing cap with mounting	Anodised die-cast aluminium		
4 Cylinder barrel	Anodised wrought aluminium alloy		
5 End cap	Anodised die-cast aluminium		
– Inside of rod clevis, swivel bearing	Sintered bronze		
Wiper seal	Bronze		
Seals	Nitrile rubber		
Note on materials	RoHS-compliant		

Technical data DFAW-...-CE/-CR with clamping unit

- The specified holding force refers to a static load
- If this value is exceeded, slippage may occur
- To avoid accidents or damage due to sudden movement of the piston rod, the clamping unit may only be released if the forces at the piston have reached equilibrium

Piston Ø	50	63
Static holding force [N]	980	1560
Max. axial backlash with end position locked and		
holding force of 10 N [mm]	0.1	
max. holding force ¹⁾ [mm]	< 1	

1) When new.

Hinge cylinders DFAW

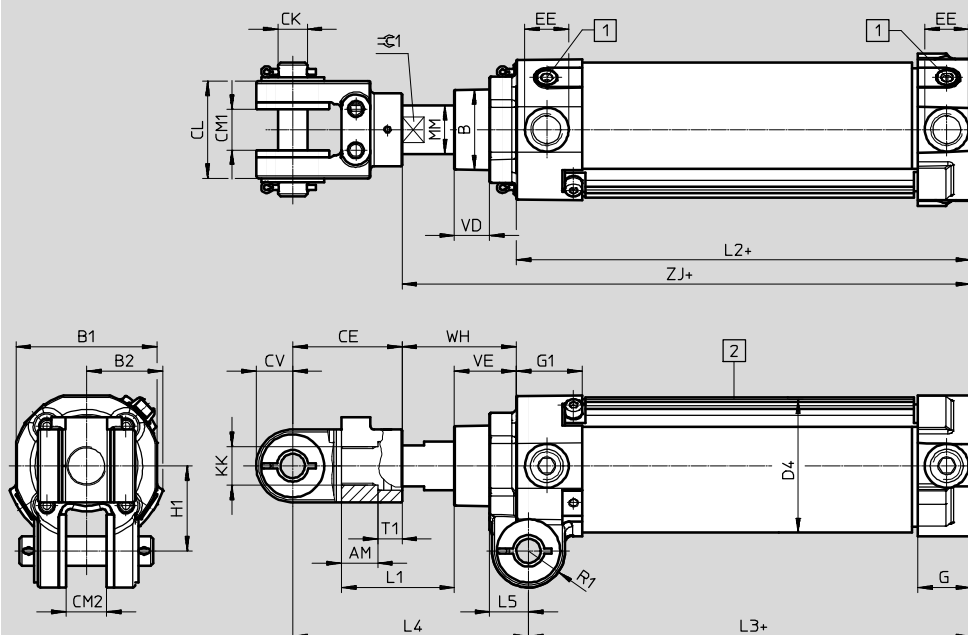
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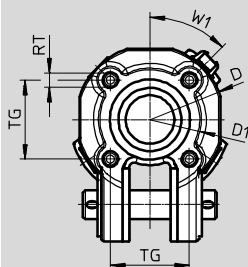
Dimensions

Download CAD data → www.festo.com

DFAW-...



Shown without rod clevis



+ = plus stroke length

1 Integrated flow control for speed control

2 Sensor rail for proximity sensor

Ø [mm]	AM	B Ø	B1	B2	CE	CK Ø	CL	CM1				CM2				CV
								DFAW-...				DFAW-...				
								-B4	-B5	-B6	-B8	-B4	-B5	-B6	-B8	
50	15	33	58	32	45	12	40	16.5	18.5	19.5	–	16.5	16.5	19.5	–	15
63			71	43				–	–	–	28	–	–	–	28	
80	19	46	89	52	58	18	60	–	–	–	28	–	–	–	28	19

Ø	D Ø	D1 Ø	D4 Ø	EE	G	G1	H1	KK	L1	L2	L3	L4
[mm]							±0.1				+0.7/–0.4	+1.5/–2
50	61	42	55	G1/4	22	27	35	M16x1.5	46.5	87	82	97
63	75		69									
80	93	60	87	G3/8	34	31.5	50	M20x1.5	43	131.5	128	110

Ø	L5	MM Ø	R1	RT	T1	TG	VD	VE	W1	WH	ZJ	≈ 1
[mm]												
50	16	20	15	M6	10	32.5	14.5	25.5	45°	47	134	17
63												
80	20	25	20	M6	11	32.5	19	35.5	45°	48.5	180	19

Hinge cylinders DFAW

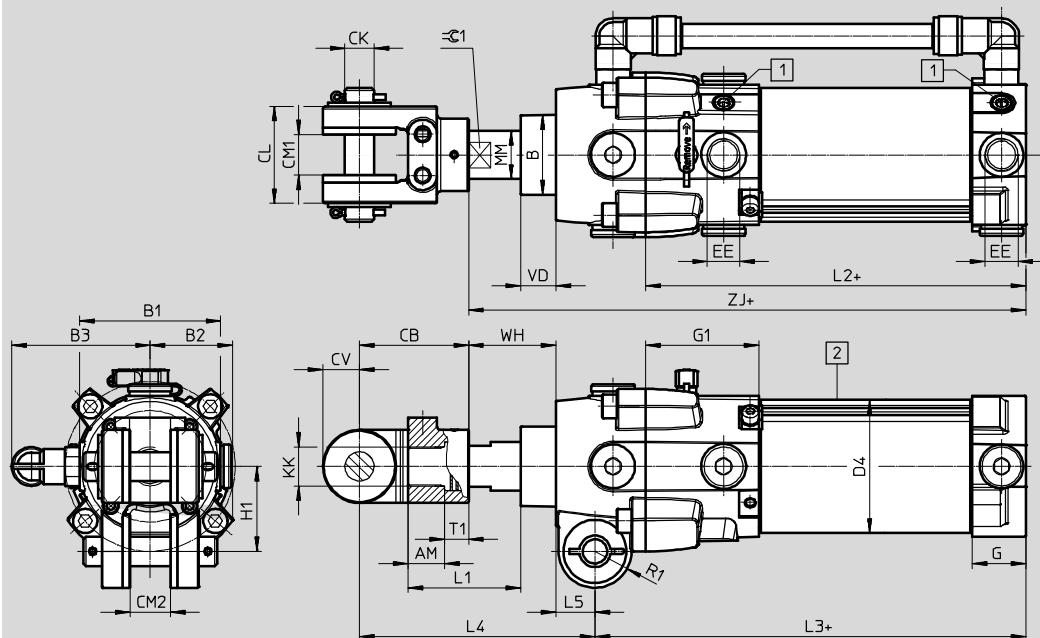
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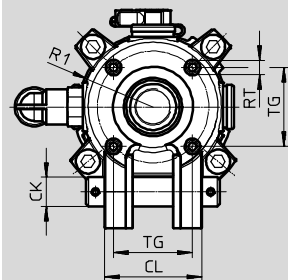
Dimensions

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DFAW-...-CE



Shown without rod clevis



+ = plus stroke length

1 Integrated flow control for speed control

2 Sensor rail for proximity sensor

Ø [mm]	AM	B Ø	B1	B2	B3	CB	CK Ø	CL	CM1			CM2		
									DFAW-... -B4	-B5	-B6	DFAW-... -B4	-B5	-B6
50	15	33	58	34	57	45	12	40	16.5	18.5	19.5	16.5	16.5	19.5
63			71	40.5	63.5									

Ø [mm]	CV	D Ø	D4 Ø	EE	G	G1	H1	KK	L1	L2	L3	L4
							±0.1				+0.7/-0.4	+1.5/-2
50	15	59	55	G1/4	22	46.5	35	M16x1.5	46.5	143.5	127.5	97
63			69							146.5	130.5	

Ø [mm]	L5	MM Ø	R1	RT	T1	TG	VD	W1	WH	ZJ	≈C 1
50	16	20	15	M6	10	32.5	14.5	45°	36	179.5	17
63										182.5	

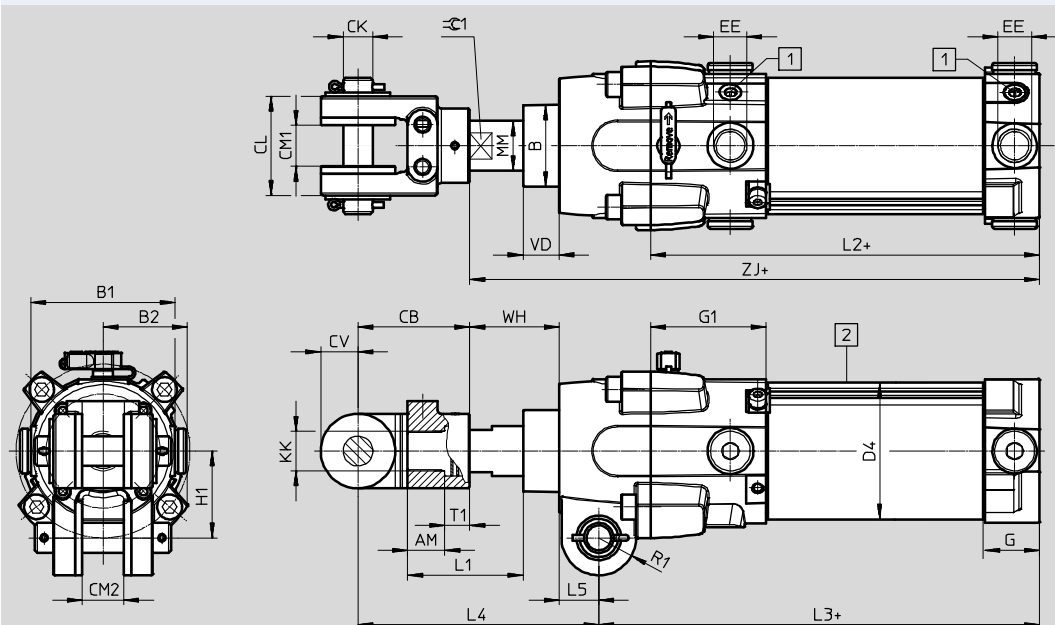
Hinge cylinders DFAW

Technical data

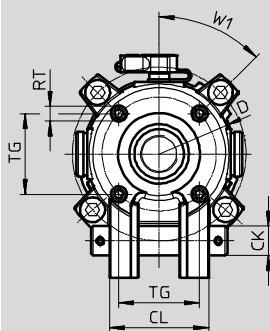
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Dimensions

DFAW-...-CR



Shown without rod clevis



+ = plus stroke length

1 Integrated flow control for speed control

2 Sensor rail for proximity sensor

Ø [mm]	AM	B Ø	B1	B2	CB	CK Ø	CL	CM1			CM2		
								DFAW-... -B4	-B5	-B6	DFAW-... -B4	-B5	-B6
50	15	33	58	34	45	12	40	16.5	18.5	19.5	16.5	16.5	19.5
63			71	40.5									

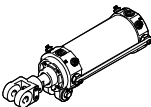
Ø [mm]	CV	D Ø	D4 Ø	EE	G	G1	H1 ±0.1	KK	L1	L2	L3 +0.7/-0.4	L4 +1.5/-2
50	15	59	55	G1/4	22	46.5	35	M16x1.5	46.5	143.5	127.5	97
63			69							146.5	130.5	

Ø [mm]	L5	MM Ø	R1	RT	T1	TG	VD	W1	WH	ZJ	≈ 1
50	16	20	15	M6	10	32.5	14.5	45°	36	179.5	17
63										182.5	

Hinge cylinders DFAW

Technical data

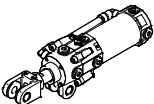
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Ordering data – Hinge cylinder							
	Piston Ø	Stroke	Rod clevis gap/swivel bearing		Rod clevis gap/swivel bearing		
	[mm]	[mm]	Part No.	Type	Part No.	Type	
	50		16.5 mm		18.5 mm (swivel bearing 16.5 mm)		
		50	2689548	DFAW-50-50-B4-PPSA	2689550	DFAW-50-50-B5-PPSA	
		75	2689552	DFAW-50-75-B4-PPSA	2689553	DFAW-50-75-B5-PPSA	
		100	2689555	DFAW-50-100-B4-PPSA	2689556	DFAW-50-100-B5-PPSA	
		125	2689559	DFAW-50-125-B4-PPSA	2689560	DFAW-50-125-B5-PPSA	
		150	2689562	DFAW-50-150-B4-PPSA	2689563	DFAW-50-150-B5-PPSA	
			19.5 mm				
		50	2689551	DFAW-50-50-B6-PPSA			
		75	2689554	DFAW-50-75-B6-PPSA			
		100	2689557	DFAW-50-100-B6-PPSA			
		125	2689561	DFAW-50-125-B6-PPSA			
		150	2689564	DFAW-50-150-B6-PPSA			
	63		16.5 mm		18.5 mm (swivel bearing 16.5 mm)		
		50	2690075	DFAW-63-50-B4-PPSA		2690096	DFAW-63-50-B5-PPSA
		75	2690098	DFAW-63-75-B4-PPSA		2690099	DFAW-63-75-B5-PPSA
		100	2690101	DFAW-63-100-B4-PPSA		2690102	DFAW-63-100-B5-PPSA
		125	2690104	DFAW-63-125-B4-PPSA		2690105	DFAW-63-125-B5-PPSA
		150	2690107	DFAW-63-150-B4-PPSA		2690108	DFAW-63-150-B5-PPSA
			19.5 mm				
		50	2690097	DFAW-63-50-B6-PPSA			
75		2690100	DFAW-63-75-B6-PPSA				
100		2690103	DFAW-63-100-B6-PPSA				
125		2690106	DFAW-63-125-B6-PPSA				
150		2690109	DFAW-63-150-B6-PPSA				
80		28 mm					
	50	2691530	DFAW-80-50-B8-PPSA				
	75	2691531	DFAW-80-75-B8-PPSA				
	100	2691532	DFAW-80-100-B8-PPSA				
	125	2691533	DFAW-80-125-B8-PPSA				
	150	2691534	DFAW-80-150-B8-PPSA				

Hinge cylinders DFAW

Technical data

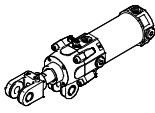
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Ordering data – Hinge cylinder with clamping unit with piston rod in retracted position							
	Piston Ø	Stroke	Rod clevis gap/swivel bearing		Rod clevis gap/swivel bearing		
	[mm]	[mm]	Part No.	Type	Part No.	Type	
	50		16.5 mm		18.5 mm (swivel bearing 16.5 mm)		
		50	2876449	DFAW-50-50-CEB4-PPSA	2876454	DFAW-50-50-CEB5-PPSA	
		75	2876450	DFAW-50-75-CEB4-PPSA	2876455	DFAW-50-75-CEB5-PPSA	
		100	2876451	DFAW-50-100-CEB4-PPSA	2876456	DFAW-50-100-CEB5-PPSA	
		125	2876452	DFAW-50-125-CEB4-PPSA	2876457	DFAW-50-125-CEB5-PPSA	
		150	2876453	DFAW-50-150-CEB4-PPSA	2876458	DFAW-50-150-CEB5-PPSA	
			19.5 mm				
		50	2876459	DFAW-50-50-CEB6-PPSA			
		75	2876460	DFAW-50-75-CEB6-PPSA			
		100	2876461	DFAW-50-100-CEB6-PPSA			
		125	2876462	DFAW-50-125-CEB6-PPSA			
		150	2876463	DFAW-50-150-CEB6-PPSA			
	63		16.5 mm		18.5 mm (swivel bearing 16.5 mm)		
		50	2885073	DFAW-63-50-CEB4-PPSA	2885079	DFAW-63-50-CEB5-PPSA	
		75	2885075	DFAW-63-75-CEB4-PPSA	2885080	DFAW-63-75-CEB5-PPSA	
		100	2885076	DFAW-63-100-CEB4-PPSA	2885081	DFAW-63-100-CEB5-PPSA	
		125	2885077	DFAW-63-125-CEB4-PPSA	2885082	DFAW-63-125-CEB5-PPSA	
		150	2885078	DFAW-63-150-CEB4-PPSA	2885083	DFAW-63-150-CEB5-PPSA	
			19.5 mm				
		50	2885084	DFAW-63-50-CEB6-PPSA			
		75	2885085	DFAW-63-75-CEB6-PPSA			
		100	2885086	DFAW-63-100-CEB6-PPSA			
		125	2885087	DFAW-63-125-CEB6-PPSA			
		150	2885088	DFAW-63-150-CEB6-PPSA			

Hinge cylinders DFAW

Technical data

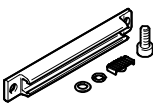
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Ordering data – Hinge cylinder with clamping unit with piston rod in advanced position					
	Piston Ø	Stroke	Rod clevis gap/swivel bearing		Rod clevis gap/swivel bearing
	[mm]	[mm]	Part No.	Type	Part No. Type
	50		16.5 mm		18.5 mm (swivel bearing 16.5 mm)
		50	2876434	DFAW-50-50-CRB4-PPSA	2876439 DFAW-50-50-CRB5-PPSA
		75	2876435	DFAW-50-75-CRB4-PPSA	2876440 DFAW-50-75-CRB5-PPSA
		100	2876436	DFAW-50-100-CRB4-PPSA	2876441 DFAW-50-100-CRB5-PPSA
		125	2876437	DFAW-50-125-CRB4-PPSA	2876442 DFAW-50-125-CRB5-PPSA
		150	2876438	DFAW-50-150-CRB4-PPSA	2876443 DFAW-50-150-CRB5-PPSA
			19.5 mm		
		50	2876444	DFAW-50-50-CRB6-PPSA	
		75	2876445	DFAW-50-75-CRB6-PPSA	
		100	2876446	DFAW-50-100-CRB6-PPSA	
		125	2876447	DFAW-50-125-CRB6-PPSA	
		150	2876448	DFAW-50-150-CRB6-PPSA	
	63		16.5 mm		18.5 mm (swivel bearing 16.5 mm)
		50	2885033	DFAW-63-50-CRB4-PPSA	2885045 DFAW-63-50-CRB5-PPSA
		75	2885038	DFAW-63-75-CRB4-PPSA	2885046 DFAW-63-75-CRB5-PPSA
		100	2885039	DFAW-63-100-CRB4-PPSA	2885047 DFAW-63-100-CRB5-PPSA
		125	2885040	DFAW-63-125-CRB4-PPSA	2885048 DFAW-63-125-CRB5-PPSA
		150	2885041	DFAW-63-150-CRB4-PPSA	2885049 DFAW-63-150-CRB5-PPSA
			19.5 mm		
		50	2885062	DFAW-63-50-CRB6-PPSA	
		75	2885063	DFAW-63-75-CRB6-PPSA	
		100	2885064	DFAW-63-100-CRB6-PPSA	
		125	2885065	DFAW-63-125-CRB6-PPSA	
		150	2885066	DFAW-63-150-CRB6-PPSA	

Hinge cylinders DFAW

Technical data

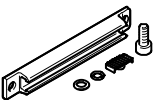
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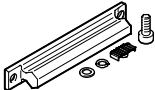
Ordering data – Sensor rail accessories								
Design	For Ø [mm]	Stroke [mm]	Proximity sensor, welding field immune		For end position		Part No.	Type
			N/O contact, 2-wire	PNP, 3-wire	Advanced	Retracted		
With T-slot								
	50, 63	50	–	–	–	–	8031580	DASP-F5-50-50-A-SR
			■	–	■	–	8031590	DASP-F5-50-50-A-SR-S1-1F
			■	–	–	■	8031595	DASP-F5-50-50-A-SR-S1-1R
			■	–	■	■	8031585	DASP-F5-50-50-A-SR-S1-2
			–	■	■	–	8031605	DASP-F5-50-50-A-SR-S4-1F
			–	■	–	■	8031610	DASP-F5-50-50-A-SR-S4-1R
			–	■	■	■	8031600	DASP-F5-50-50-A-SR-S4-2
		75	–	–	–	–	8031581	DASP-F5-50-75-A-SR
			■	–	■	–	8031591	DASP-F5-50-75-A-SR-S1-1F
			■	–	–	■	8031596	DASP-F5-50-75-A-SR-S1-1R
			■	–	■	■	8031586	DASP-F5-50-75-A-SR-S1-2
			–	■	■	–	8031606	DASP-F5-50-75-A-SR-S4-1F
			–	■	–	■	8031611	DASP-F5-50-75-A-SR-S4-1R
			–	■	■	■	8031601	DASP-F5-50-75-A-SR-S4-2
		100	–	–	–	–	8031582	DASP-F5-50-100-A-SR
			■	–	■	–	8031592	DASP-F5-50-100-A-SR-S1-1F
			■	–	–	■	8031597	DASP-F5-50-100-A-SR-S1-1R
			■	–	■	■	8031587	DASP-F5-50-100-A-SR-S1-2
			–	■	■	–	8031607	DASP-F5-50-100-A-SR-S4-1F
			–	■	–	■	8031612	DASP-F5-50-100-A-SR-S4-1R
			–	■	■	■	8031602	DASP-F5-50-100-A-SR-S4-2
		125	–	–	–	–	8031583	DASP-F5-50-125-A-SR
			■	–	■	–	8031593	DASP-F5-50-125-A-SR-S1-1F
			■	–	–	■	8031598	DASP-F5-50-125-A-SR-S1-1R
			■	–	■	■	8031588	DASP-F5-50-125-A-SR-S1-2
			–	■	■	–	8031608	DASP-F5-50-125-A-SR-S4-1F
			–	■	–	■	8031613	DASP-F5-50-125-A-SR-S4-1R
			–	■	■	■	8031603	DASP-F5-50-125-A-SR-S4-2
		150	–	–	–	–	8031584	DASP-F5-50-150-A-SR
			■	–	■	–	8031594	DASP-F5-50-150-A-SR-S1-1F
			■	–	–	■	8031599	DASP-F5-50-150-A-SR-S1-1R
			■	–	■	■	8031589	DASP-F5-50-150-A-SR-S1-2
			–	■	■	–	8031609	DASP-F5-50-150-A-SR-S4-1F
			–	■	–	■	8031614	DASP-F5-50-150-A-SR-S4-1R
			–	■	■	■	8031604	DASP-F5-50-150-A-SR-S4-2

Hinge cylinders DFAW

Technical data

FESTO

Ordering data – Sensor rail accessories								
Design	For Ø [mm]	Stroke [mm]	Proximity sensor, welding field immune		For end position		Part No.	Type
			N/O contact, 2-wire	PNP, 3-wire	Advanced	Retracted		
With T-slot								
	80	50	–	–	–	–	8031615	DASP-F5-80-50-A-SR
			■	–	■	–	8031625	DASP-F5-80-50-A-SR-S1-1F
			■	–	–	■	8031630	DASP-F5-80-50-A-SR-S1-1R
			■	–	■	■	8031620	DASP-F5-80-50-A-SR-S1-2
			–	■	■	–	8031640	DASP-F5-80-50-A-SR-S4-1F
			–	■	–	■	8031645	DASP-F5-80-50-A-SR-S4-1R
			–	■	■	■	8031635	DASP-F5-80-50-A-SR-S4-2
		75	–	–	–	–	8031616	DASP-F5-80-75-A-SR
			■	–	■	–	8031626	DASP-F5-80-75-A-SR-S1-1F
			■	–	–	■	8031631	DASP-F5-80-75-A-SR-S1-1R
			■	–	■	■	8031621	DASP-F5-80-75-A-SR-S1-2
			–	■	■	–	8031641	DASP-F5-80-75-A-SR-S4-1F
			–	■	–	■	8031646	DASP-F5-80-75-A-SR-S4-1R
			–	■	■	■	8031636	DASP-F5-80-75-A-SR-S4-2
		100	–	–	–	–	8031617	DASP-F5-80-100-A-SR
			■	–	■	–	8031627	DASP-F5-80-100-A-SR-S1-1F
			■	–	–	■	8031632	DASP-F5-80-100-A-SR-S1-1R
			■	–	■	■	8031622	DASP-F5-80-100-A-SR-S1-2
			–	■	■	–	8031642	DASP-F5-80-100-A-SR-S4-1F
			–	■	–	■	8031647	DASP-F5-80-100-A-SR-S4-1R
			–	■	■	■	8031637	DASP-F5-80-100-A-SR-S4-2
		125	–	–	–	–	8031618	DASP-F5-80-125-A-SR
			■	–	■	–	8031628	DASP-F5-80-125-A-SR-S1-1F
			■	–	–	■	8031633	DASP-F5-80-125-A-SR-S1-1R
			■	–	■	■	8031623	DASP-F5-80-125-A-SR-S1-2
			–	■	■	–	8031643	DASP-F5-80-125-A-SR-S4-1F
			–	■	–	■	8031648	DASP-F5-80-125-A-SR-S4-1R
			–	■	■	■	8031638	DASP-F5-80-125-A-SR-S4-2
		150	–	–	–	–	8031619	DASP-F5-80-150-A-SR
			■	–	■	–	8031629	DASP-F5-80-150-A-SR-S1-1F
			■	–	–	■	8031634	DASP-F5-80-150-A-SR-S1-1R
			■	–	■	■	8031624	DASP-F5-80-150-A-SR-S1-2
			–	■	■	–	8031644	DASP-F5-80-150-A-SR-S4-1F
			–	■	–	■	8031649	DASP-F5-80-150-A-SR-S4-1R
			–	■	■	■	8031639	DASP-F5-80-150-A-SR-S4-2

Ordering data – Sensor rail accessories				
Design	For Ø [mm]	Stroke [mm]	Part No.	Type
Hexagonal				
	50, 63	50	8031838	DASP-F5-50-50-H-SR
		75	8031839	DASP-F5-50-75-H-SR
		100	8031840	DASP-F5-50-100-H-SR
		125	8031841	DASP-F5-50-125-H-SR
		150	8031842	DASP-F5-50-150-H-SR
	80	50	8031844	DASP-F5-80-50-H-SR
		75	8031845	DASP-F5-80-75-H-SR
		100	8031846	DASP-F5-80-100-H-SR
		125	8031847	DASP-F5-80-125-H-SR
		150	8031848	DASP-F5-80-150-H-SR

Hinge cylinders DFAW

Ordering data – Modular product system



Ordering table – Hinge cylinder DFAW

Size	50	63	80	Conditions	Code	Enter code
[M] Module no.	2676213	2682302	2682335			
Series	Hinge cylinder				DFAW	DFAW
Piston diameter [mm]	50	63	80		-...	
Stroke [mm]	50, 75, 100, 125, 150 10 ... 200				-...	
Clamping unit, mounted	None					
	With piston rod in retracted position				-CE	
	With piston rod in advanced position				-CR	
Rod clevis gap [mm]	16.5	-	-		-B4	
	18.5/16.5	-	-		-B5	
	19.5	-	-		-B6	
	-	28	-		-B8	
Cushioning	Pneumatic cushioning, self-adjusting at both ends				-PPS	-PPS
Position sensing	Via proximity sensor				A	A

Transfer order code

	DFAW	-		-		-		-	PPS		A
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Hinge cylinders DFAW

Accessories

FESTO

Ordering table – Sensor rail with T-slot

Size	50 For Ø 50/63	80 For Ø 80	Conditions	Code	Enter code
M Module no.	2749270	2785658			
Series	Sensor rail			DASP	DASP
Allocation	Version for DFAW			-F5	-F5
Size [mm]	50	80		-...	
Stroke [mm]	50, 75, 100, 125, 150 10 ... 200			-...	
Mounting component design	With T-slot			-A	-A
Product type	Sensor rail			-SR	-SR
O Proximity sensor, magneto-resistive	None				
	Welding field immune, N/O contact, 2-wire, 5.0 m			-S1	
	Welding field immune, PNP, M12 plug, 3-wire, 0.3 m			-S2	
	Welding field immune, NPN, M12 plug, 3-wire, 0.3 m			-S3	
	Welding field immune, PNP, cable, 3-wire, 5.0 m			-S4	
	Welding field immune, NPN, cable, 3-wire, 5.0 m			-S5	
	PNP, M8 plug, 3-wire, 0.3 m			-S6	
	PNP, cable, 3-wire, 2.5 m			-S7	
	PNP, M12 plug, 3-wire, 0.3 m			-S8	
	NPN, M8 plug, 3-wire, 0.3 m			-S9	
	EX2, N/O contact, 2-wire, 5.0 m			-S10	
Number of proximity sensors	None				
	One	☐		-1	
	Two	☐		-2	
Mounting position of proximity sensor	At both ends				
	Advanced end position	☐		F	
	Retracted end position	☐		R	

☐ 1, 2, F, R Only with S1 ... S10

Transfer order code

	DASP	-	F5	-		-		-	A	-	SR	-		-		-	
--	------	---	----	---	--	---	--	---	---	---	----	---	--	---	--	---	--

Hinge cylinders DFAW

Accessories

FESTO

Ordering table – Sensor rail, hexagonal design

Size	50 For DFAW-50/-63	80 For DFAW-80	Conditions	Code	Enter code
[M] Module no.	2747377	2785652			
Series	Sensor rail			DASP	DASP
Allocation	Version for DFAW			-F5	-F5
Size [mm]	50	80		*...	
Stroke [mm]	50, 75, 100, 125, 150 10 ... 200			*...	
Mounting component design	Hexagonal			-H	-H
Product type	Sensor rail			-SR	-SR

Transfer order code

-

 -

 -

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Hinge cylinders DFAW

Accessories

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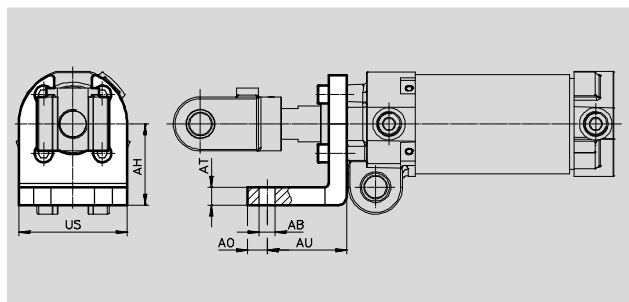
Foot mounting HNH

Materials:

Steel

Scope of delivery:

4 screws



Dimensions and ordering data

For Ø	AB Ø	AH	AO	AT	AU	US	Weight [g]	Part No.	Type
50, 63, 80	9	45	11	10	44	60	241	549603	HNH-50/63/80

Mounting bracket TBH

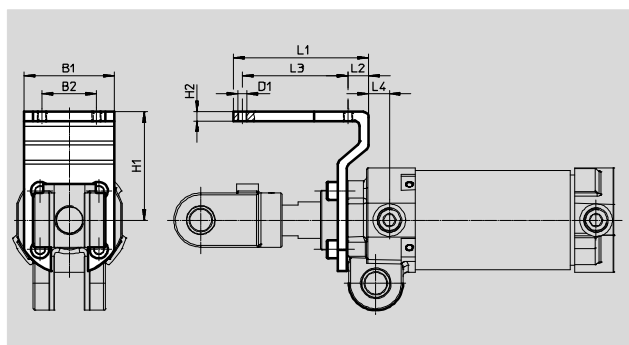
Materials:

Steel

Scope of delivery:

4 screws, short

4 screws, long



Dimensions and ordering data

For Ø	B1	B2	D1	H1	H2	L1	L2	L3	L4	Weight [g]	Part No.	Type
50, 63	50	30.2	M5	60	5	75	11.3	58.7	11.5	282	549605	TBH-50/63/80
80									37			

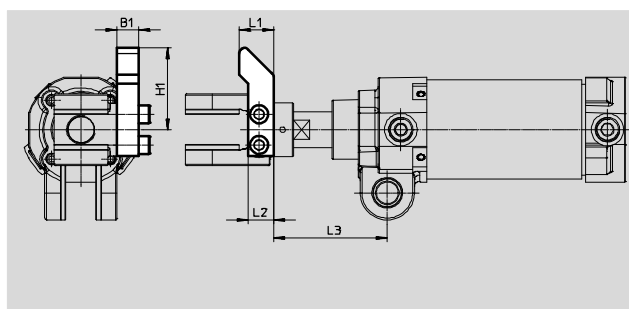
Switch lever KTH

Materials:

Steel

Scope of delivery:

2 screws



Dimensions and ordering data

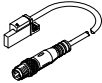
For Ø	B1	H1	L1	L2	L3	Weight [g]	Part No.	Type
50, 63	12	45.3	19	14	63	83	549607	KTH-50/63/80
80					68.5			

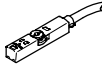
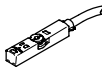
Hinge cylinders DFAW

Accessories

FESTO

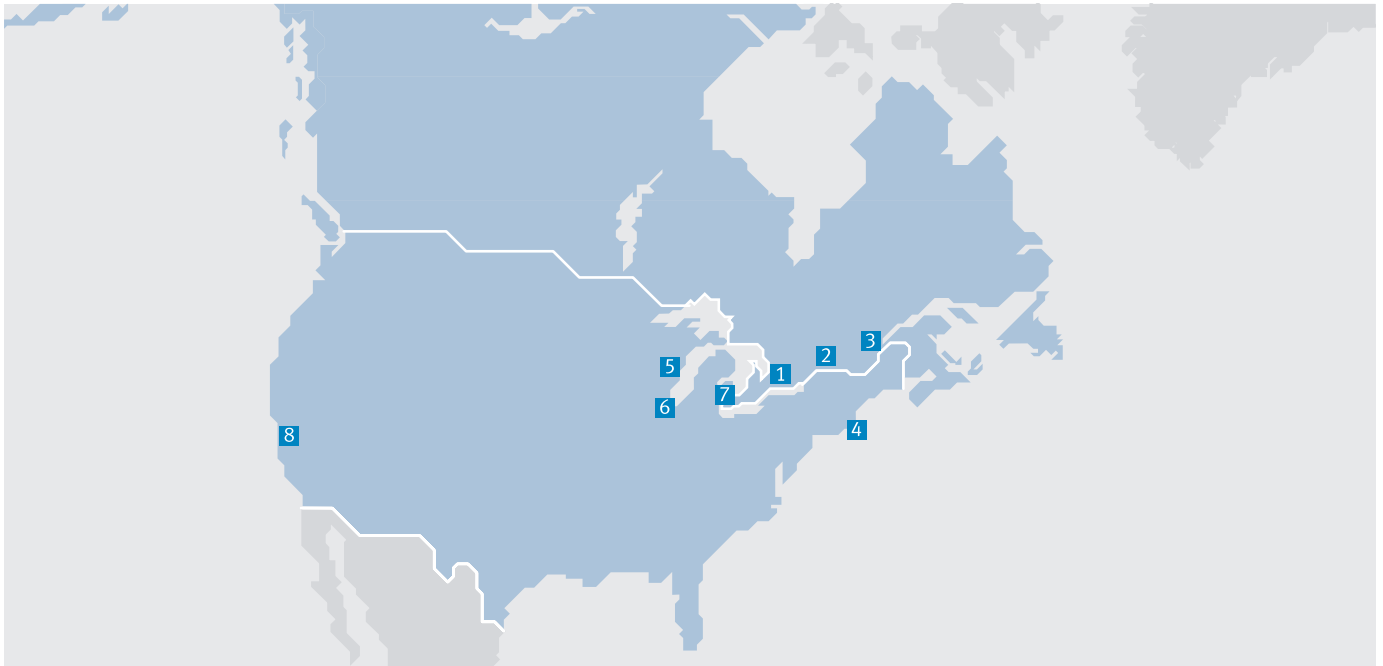
Ordering data – Mounting kit					
	Scope of delivery	For Ø	Weight [g]	Part No.	Type
	2 bolts, 2 retaining pins and 4 washers	50, 63	117	573323	DAMD-F5-S-50
		80	362	573172	DAMD-F5-S-80

Ordering data – Proximity sensor for T-slot, magneto-resistive, welding field immune						Technical data → Internet: sdbt	
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Order code	Part No.	Type
N/O contact							
	Insertable in the slot from above	Non-contacting	Cable, 2-wire	5.0	S1	2427617	SDBT-BSW-1L-ZU-W-5-N-LE
			Plug M12x1, 3-pin	0.3	S2	2476855	SDBT-BSW-1L-PU-W-Q3-N-M12
		NPN	Plug M12x1, 3-pin	0.3	S3	2427615	SDBT-BSW-1L-NU-W-Q3-N-M12
		PNP	Cable, 3-wire	5.0	S4	2427616	SDBT-BSW-1L-PU-W-5-N-LE
		NPN	Cable, 3-wire	5.0	S5	2427618	SDBT-BSW-1L-NU-W-5-N-LE

Ordering data – Proximity sensor for T-slot, magneto-resistive						Technical data → Internet: smt	
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Order code	Part No.	Type
N/O contact							
	Insertable in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-wire	2.5	S7	574335	SMT-8M-A-PS-24V-E-2,5-OE
			Plug M8x1, 3-pin	0.3	S6	574334	SMT-8M-A-PS-24V-E-0,3-M8D
			Plug M12x1, 3-pin	0.3	S8	574337	SMT-8M-A-PS-24V-E-0,3-M12
		NPN	Plug M8x1, 3-pin	0.3	S9	574339	SMT-8M-A-NS-24V-E-0,3-M8D
N/O contact, ATEX-compliant							
	Insertable in the slot from above, flush with the cylinder profile, short design	Non-contacting	Cable, 2-wire	5.0	S10	574341	SMT-8M-A-ZS-24V-E-5,0-OE-EX2

Ordering data – Connecting cables					Technical data → Internet: nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type	
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3	
			5	541334	NEBU-M8G3-K-5-LE3	
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541338	NEBU-M8W3-K-2.5-LE3	
			5	541341	NEBU-M8W3-K-5-LE3	
	Angled socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541363	NEBU-M12G5-K-2.5-LE3	
			5	541364	NEBU-M12G5-K-5-LE3	

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