



Key features

At a glance

- Single-acting or double-acting
- Versions
- Trunnion
- Roller
- Toggle lever

Trunnion version

- Direct mounting of solenoid valves on flange plate
- Fast and simple set-up of conveyor lines
- Workpiece carriers, pallets and packages weighing up to 150 kg can be safely stopped
- Gentle stopping without impact vibrations or noise with toggle lever version
- Simple actuation via valve terminal (e.g. in combination with other cylinders at an assembly station)
- Flanged solenoid valve permits fast actuation even over long distances and with individual stopper cylinders
- Space-saving sensing via integrated proximity sensors





Mounting options







Flange mounting

Application options and versions





By means of spring return of the piston rod in the event of pressure failure.

Highly effective, low noise level

Toggle lever version with integrated shock absorber facilitates precise and gentle stopping of the workpiece carrier.

Stopper cylinders STA/STAF Product range overview

Function	Version	Туре	Piston \varnothing	Stroke	Type of mounting		Cushioning	Position	→ Page/Internet			
			[mm]	[mm]	direct	via flange	D	sensing				
Circola	Tourise		[IIIIII]	[11111]			r	A				
Single-			20	1 5		r			4			
double-actin		STAFP-A STAFP-A	20	15		-			4			
g			32	20			•	•				
	A The		50	30								
	Roller version											
		STAP-A-R STAFP-A-R	20	15	-	-			10			
			32	20	•	•		•				
			50	30		-						
			80	30,40	-				-			
		I	I				I	I				
	Toggle lever version	on										
		STAFP-A-K	32	20	_	•	•	•	20			

Stopper cylinders STA/STAF, trunnion Functional sequence and type codes

Functional sequence





- 1. Sudden braking of the workpiece carrier via the piston rod.
- 2. The workpiece carrier is released by activating the cylinder. The control system must hold the piston down until the workpiece carrier has passed the stopper cylinder.



3. The piston rod then advances by means of spring force or compressed air. The next workpiece carrier can then be stopped.

Type codes

	S	A –	20	-	15	-	Р	-	А	
Туре										
Single-ac	ting or double-acting	,								
STA	Stopper cylinder									
STAF	Stopper cylinder with flange mounting									
$\textbf{Piston} \varnothing$	i [mm]									
				_						
Stroke [n	nm]									
Cushioni	ng									
Р	Flexible cushioning rings/pads at both ends							1		
	1									
Position	sensing									
A	Via proximity sensor									
	•									
Version										
	Trunnion version									

Stopper cylinders STA/STAF, trunnion Peripherals overview



Acce	Accessories								
	Brief description -								
1	Proximity sensor SME/SMT-8	Can be integrated in the cylinder profile barrel	28						
2	Slot cover ABP	For protecting against ingress of dirt	28						

Stopper cylinders STA/STAF, trunnion

Technical data



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Note

Contact with liquids must be avoided during use.



General technical data							
Piston \varnothing		20	32	50			
Pneumatic connection	STA	M5	G1⁄8	G1⁄8			
	STAF	-	M5	G1⁄/8			
Stroke	[mm]	15	20	30			
Piston rod \varnothing	[mm]	12	20	32			
Operating pressure	[bar]	10	·	·			
Operating medium		Filtered compressed air, lubricated or unlubricated					
Constructional design		Piston cylinder with spring return					
Cushioning		Flexible cushioning rings/pads at both ends					
Position sensing		Via proximity sensor					
Type of mounting		Via through-holes					
		Via female thread					
Mounting position		Any					
Mode of operation		Single-acting or double-acting					
Protection against rotation		None					
Ambient temperature ¹⁾	[°C]	0 +60					

1) Note operating range of proximity sensors.

Note: This product conforms to ISO 1179-1 and ISO 228-1

.....

Forces [N]			
Piston \varnothing	20	32	50
Permissible impact force	260	1,000	2,900
on the advanced piston rod			
Spring force	13 18	20 42	43 60

Under "impact force" we understand the maximum of a force-time curve during impact/braking of the moveable mass. It is effective vertical to the movement axis of the piston rod. If one regards the elastic components as linear springs, the permitted impact energy can be calculated from the permitted impact

force. This serves for selecting the correct stopper.

The stopper must not switch under this force. Depending on the mass to be stopped, it may be advisable to provide an elastic buffer in order to cushion the impact, to reduce noise and to optimize the impact energy.



 \rightarrow = Direction of impact force

Stopper cylinders STA/STAF, trunnion

Technical data

Permissible mass m as a function of the conveyor speed v



Permissible transverse force F₀ during the switching operation as a function of the pressure p

Under "permitted lateral force" during the switching procedure, we understand the force which still exists vertical to the direction of movement of the piston rod after the impact or braking procedure, e.g. by bands still running or the slope power take-off force of an inclined rolling surface. The force is effective statically. The stopper must not switch under this force. In order that the functioning of the cylinder can be guaranteed, a certain minimum pressure must be applied.



Note

Selection aid \rightarrow 16



Stop	Stopper cylinder							
1	Piston rod	Stainless steel						
2	Flange	Die-cast aluminium						
3	Cylinder barrel	Anodised aluminium						
4	Springs	Spring steel						
5	End cap	Anodised aluminium						
-	Seals	Polyurethane						
-	Note on materials	Free of copper, PTFE and silicone						

Stopper cylinders STA/STAF, trunnion Technical data

FESTO



Note: This product conforms to ISO 1179-1 and ISO 228-1

Stopper cylinders STA/STAF, trunnion

H2

£

H10

32

50

E7

Dimensions Download CAD Data **→ www.festo.com/us/cad** Flange mounting 1 E1 6 ⊕ 6 Ś \bigcirc LŻ B4 L5 L9 L10 FB F4 D D2 D3 D6 <u>E1</u> 00 00 -**|** 🏟 🛉 ֌ F3 II L9 I T. 1 Slot for proximity sensor L2 SME/SMT-8

Ø [mm]	Stroke [mm]	B4	D Ø	D2 Ø	D3 Ø	D6	E1	F2	F3	F4	Н	2
32	20	4.5	20	11	6.6	M3	M5	8.5	14	7	2	0
50	30	4.5	32	15	9	M4	64/8	9	17	8	3	0
Ø [mm]	Stroke [mm]	H6	H10	L	L2	L5	L6	L7	L9	L10	T2	T2

83

111

32

45

65

90

50

68

52

71

Note: This product conforms to ISO 1179-1 and ISO 228-1

16.5

18

67.5

85

20

30

Ordering data									
Piston \varnothing	Stroke	Direct mounting		Flange mounting					
[mm]	[mm]	Part No. Type		Part No. Type					
20	15	164 887 STA-20-15-P-A							
32	20	164 888 STA-32-20-P-A		164 890 STAF-32-20-P-A					
50	30	164 889 STA-50-30-P-A		164 891 STAF-50-30-P-A					

16.5

7

4

5

6.2

5

26

36

Stopper cylinders STA/STAF, roller Functional sequence and type codes

FESTO





- 1. Sudden braking of the workpiece carrier via the piston rod.
- 2. The workpiece carrier is released by activating the cylinder.
- 3. The piston rod then advances by means of spring force or compressed air until the roller makes contact with the workpiece carrier. The workpiece carrier continues to move forward.

3.



4. After the workpiece carrier has passed, the piston rod advances to the end position. The next workpiece carrier can then be stopped.

-				
lv/r	2	CO	d	20
IVL		υu	u	- 3

	ST	A –	- 20	- 15	 Р	- A	R
Туре							
Single-acting	or double-acting						
STA	Stopper cylinder						
STAF	Stopper cylinder with flange mounting						
Piston \varnothing [mm	n]						
				-			
Stroke [mm]							
Cushioning							
Р	Flexible cushioning rings/pads at both ends					I	
	•						
Position sens	ing						
A	Via proximity sensor						,
·							
Version							
R	Roller version						

Stopper cylinders STA/STAF, roller Peripherals overview



Acce	Accessories							
		Brief description	➔ Page/Internet					
1	Proximity sensor SME/SMT-8	Can be integrated in the cylinder profile barrel	28					
2	Slot cover ABP	For protecting against ingress of dirt	28					

Stopper cylinders STA/STAF, roller

Technical data

Function = -N-Diameter 20 ... 80 mm

Stroke length -T-15 ... 40 mm www.festo.com/en/

Spare_parts_service

Contact with liquids must be avoided during use.

Note



General technical data								
Piston \varnothing		20	32	50	80			
Pneumatic connection	STA	M5	G1⁄8	G1⁄8	-			
	STAF	-	M5	G1⁄8	G1⁄8			
Stroke	[mm]	15	20	30	30/40			
Piston rod \varnothing	[mm]	12	20	32	50			
Operating pressure	[bar]	10	•		·			
Operating medium		Filtered compressed air, lubricated or unlubricated						
Constructional design		Piston cylinder with spring return						
Cushioning		Flexible cushioning rings/pads at both ends						
Position sensing		Via proximity sensor						
Type of mounting		Via through-holes						
		Via female thread						
Mounting position		Any						
Mode of operation		Single-acting or double-acting						
Protection against rotation		Flat-sided piston rod						
Ambient temperature ¹⁾	[°C]	0 +60	0 +60					

1) Note operating range of proximity sensors.

Note: This product conforms to ISO 1179-1 and ISO 228-1

Forces [N]					
Piston \varnothing	20	32	50	80	
Stroke	15	20	30	30	40
Permissible impact force	170	830	2,300	14,600 13,300	
on the advanced piston rod					
Spring force	13 18	20 42	43 60	79 115	101 170

Under "impact force" we understand the maximum of a force-time curve during impact/braking of the moveable mass. It is effective vertical to the movement axis of the piston rod. If one regards the elastic components as linear springs, the permitted impact energy can be calculated from the permitted impact

force. This serves for selecting the correct stopper.

The stopper must not switch under this force. Depending on the mass to be stopped, it may be advisable to provide an elastic buffer in order to cushion the impact, to reduce noise and to optimize the impact energy.



 \rightarrow = Direction of impact force

Stopper cylinders STA/STAF, roller

Technical data

Permissible mass m as a function of the conveyor speed v



Permissible transverse force F₀ during the switching operation as a function of the pressure p

Under "permitted lateral force" during the switching procedure, we understand the force which still exists vertical to the direction of movement of the piston rod after the impact or braking procedure, e.g. by bands still running or the slope power take-off force of an inclined rolling surface. The force is effective statically. The stopper must not switch under this force. In order that the functioning of the cylinder can be guaranteed, a certain minimum pressure must be applied.



Note

Selection aid \rightarrow 16

Materials



Stop	Stopper cylinder							
1	Roller	Steel						
2	Piston rod	Stainless steel						
3	Flange	Die-cast aluminium						
4	Cylinder barrel	Anodised aluminium						
5	Springs	Spring steel						
6	End cap	Anodised aluminium						
-	Seals	Polyurethane						
-	Note on materials	Free of copper, PTFE and silicone						

Stopper cylinders STA/STAF, roller Technical data

FESTO



Note: This product conforms to ISO 1179-1 and ISO 228-1

Stopper cylinders STA/STAF, roller Technical data

Dimension	ıs											Downloa	ad CAD Da	ta 🗲 www	.festo.cor	n/us/cad
Flange mo	unting															
SME,	/SMT-8	В	B	4	D Ø	D2 Ø	2 D3 Ø	D6	E1	F2	F3	F4	H3	H4	H5	H6
				-	2.0			110	Mr	0.5	4.4	-		20	2.0	465
32 50	20	8	4.	5	20	11	6.6 Q	M3 M4	M5 G1/2	8.5 0	14	/	6	38 50.5	20	16.5
80	30	18	4.	5	50	18	11	M4	G1/8	11	17	4.5	10	63	30	22
	40													/3	40	
Ø [mm]	Stroke [mm]	H9	H1	0	L	L2	L3	L4	L5	L6	L7	L9	L10	R1	T2	T3
32	20	4	67	.5	50	52	3.5	7.5	83	32	65	26	16.5	9	4	6.2
50	30	5	8	5	68	71	7	12	111	45	90	36	7	12.5	5	5
80	30 40	- 8	11 12	9 9	107	111	11	18	160	63	135	36	18.5	18	6	6
Note: This prod Ordering d Piston Ø [mm]	luct conform lata	s to ISO 1179- Stroke [mm]	1 and ISO	228-1 Direc Part I	t mountir No. Tv	ng pe					Flange mo Part No.	ounting Type				
20		15		164	883 ST	A-20-15-I	P-A-R				-	_				
32		20		164	884 ST	A-32-20-I	P-A-R				164 892	STAF-32	2-20-P-A-F	2		
50		30		164	885 ST	A-50-30-I	P-A-R				164 893	STAF-50)-30-P-A-F	2		
80		30		-	-						164 886	STAF-80)-30-P-A-F	2		
80		40		-	-						164 894	STAF-80)-40-P-A-F	2		

Technical data

Selection aid Stopping a workpiece carrier

The stopper cylinder is used to brake an individual workpiece carrier.



Example

Given: Friction value µ = 0.1 Delivery speed v = 10 m/min Workpiece carrier with workpiece m = 30 kg Operating pressure p = 6 bar

Choice: Stopper cylinder STA...-50-...-R

1. Checking the permissible mass

The maximum permissible mass at a delivery speed of 10 m/min is 60 kg. This means that the total mass of the workpiece carrier and workpiece of 30 kg is permissible.



2. Checking the permissible transverse force during the switching operation

 $\begin{array}{l} \mbox{Transverse force } F_Q = \mbox{friction force} \\ F_{\mbox{Friction}} & = \mu \, x \, m \, x \, g \\ & = 0.1 \, x \, 30 \, \mbox{kg} \, x \, 9.81 \, \mbox{m/s}^2 \\ & = \mbox{approx. 30 N} \end{array}$

The maximum permissible transverse force at an operating pressure of 6 bar is 1,100 N.

This means that the transverse force of 30 N is permissible.



 STA-20-15-P-A-R
 STA/STAF-32-20-P-A-R
 STA/STAF-50-30-P-A-R
 STA/STAF-80-30-P-A-R
 STA/STAF-80-40-P-A-R

Technical data

Selection aid

mounted between the workpiece

(e.g. elastomer elements).

Stopping or separating several workpiece carriers The stopper cylinder is used to separate workpiece carriers. Further workpiece carriers accumulate behind carriers already at the stopper cylinder. It is vital that a buffer is



Example

carriers

Given: Friction value $\mu = 0.1$ Delivery speed v = 10 m/min Workpiece carrier with workpiece m = 30 kg Operating pressure p = 6 bar Maximum number of workpiece carriers accumulating simultaneously n_{Group} = 1 Maximum number of all queued workpiece carriers n_{Queue} = 5 Maximum number of all advancing workpiece carriers n_{Queue-1} = 4 Spring travel of the workpiece carrier buffer $s_F = 1 \text{ mm}$

Choice: Stopper cylinder STA...-50-...-R

1. Checking the permissible mass of the first workpiece carrier

The maximum permissible mass at a delivery speed of 10 m/min is 60 kg. This means that the total mass of the workpiece carrier and workpiece of 30 kg is permissible.



2a. Calculation of the maximum permissible impact force when workpiece carriers accumulate behind a carrier at the stopper cylinder

With the STA...-50, the maximum permissible impact force is 2,300 N. This means that with a total force of 1,000 N, the number of workpiece carriers is permissible.

Impact force calculation:

$$F_{Impact} = \frac{(n_{Group} \times m) \times v^2}{s_F} = \frac{(1 \times 30 \text{kg}) \times (10 \text{m}/60 \text{s})^2}{0.001 \text{m}} = \text{ca.850N}$$

Friction force:

 $F_{Friction}$ = μ \times (n_{Queue} \times m) \times g = 0.1 \times (5 \times 30kg) \times 9.81m/s^2 = ca.150N

Max. total force:

 $F_{Total \ force} = F_{Impact} + F_{Friction} = 850N + 150N = 1000N$

Technical data

Selection aid



3. Separating and advancing the workpiece carriers



Max. total mass:

 $m_{Total\,force}~=~n_{Queue\,-\,1}\times~m~=~4~\times~30kg~=~120kg$

Result

of 10 m/min is 60 kg.

selected for separating.

The stopper cylinder STA...-80-...-R must be selected for separating five workpiece carriers.

Stopper cylinders STA/STAF Technical data



Stopper cylinders STAF, toggle lever

2

Functional sequence



 Gentle stopping of heavy masses via a hydraulic shock absorber in the piston rod.



 The piston is advanced by means of spring force or compressed air. The toggle lever tips back which prevents the workpiece carrier from being pushed up.



2. The toggle lever is locked into the retracted end position so that the workpiece carrier cannot be pushed back by the shock absorber.

5



3

3. The workpiece carrier is released by means of compressed air, and the toggle lever is released simultaneously.



Protection against rotation: The guide rod always aligns the toggle lever precisely to the approaching workpiece carrier.



Integrated shock absorber: absorbs impact energy and stops the workpiece carrier gently, and with low noise levels.

The impact energy can be adjusted using the regulating screw in the toggle lever.



5. The toggle lever is raised by

the next workpiece carrier.

means of spring force and stops

Detenting roller lever: the workpiece carrier cannot be pushed back by the shock absorber.



Locking mechanism for disabling the stopper function: the workpiece carrier is able to pass the holding point without activating the cylinder.

Note

Trunnion or roller type stopper cylinders can be mounted in any position.

Stopper cylinders with toggle lever must be mounted in the vertical, upright position.

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X = 62.8 ... 63.4 mm

Stopper cylinders STAF, toggle lever

Key features

Mounting options for solenoid valves and valve functions

An MEH, MEBH, MOEH or MOEBH solenoid valve can be mounted on the stopper cylinder for quick, direct actuation of the cylinder. This type of actuation is only possible for stopper cylinders with flange mounting. The valve must be mounted on the flange

plate via a valve sub-base ZVA. The position of the piston rod when the solenoid valve is in the normal position depends upon the valve type and the position of the valve on the cylinder.

Application	Piston rod in initial position	Required solenoid valve	Type of mounting for the solenoid valve with sub-base ZVA
	Single-acting		
		Normally advanced 173 125 MEH-3/2-5,0-B 172 999 MEBH-3/2-5,0-B	
		Normally retracted 173 429 MOEH-3/2-5,0-B 173 002 MOEBH-3/2-5,0-B	
	Double-acting	N N N	
		Normally advanced 173 128 MEH-5/2-5,0-B 173 005 MEBH-5/2-5,0-B	
		Normally retracted 173 128 MEH-5/2-5,0-B 173 005 MEBH-5/2-5,0-B	

Note

Cylinders are always supplied single-acting with spring. If a double-acting stopper cylinder is required, the filter nipple in the exhaust port must be removed. The exhaust port is then used as a supply port.

Solenoid valves MEH, MEBH → Internet: solenoid valve

Stopper cylinders STAF, toggle lever Type codes and peripherals overview



Peripherals overview



Acce	Accessories							
		Brief description	→ Page/Internet					
1	Plug socket with cable	-	kmeb					
2	3/2-way valve MEBH	For fast and direct actuation of the stopper cylinder	mebh					
3	Sub-base ZVA	For stopper cylinder with flange	26					
4	Proximity sensor SME/SMT-8	Can be integrated in the cylinder profile barrel	28					
5	Slot cover ABP	For protecting against ingress of dirt	28					

Stopper cylinders STAF, toggle lever Technical data



-T-Stroke length 20 mm

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General technical data

Note

Contact with liquids must be avoided during use.



	M5						
[mm]	20						
[mm]	20						
[bar]	10						
	Filtered compressed air, lubricated or unlubricated						
	Piston cylinder with spring return						
	Flexible cushioning rings/pads at both ends						
	Via proximity sensor						
	Via through-holes						
	Vertical, upright						
	Single-acting or double-acting						
	Guide rod						
[°C]	0 +60						
	[mm] [mm] [bar]						

1) Note operating range of proximity sensors.

Note: This product conforms to ISO 1179-1 and ISO 228-1

Forces [N]					
Permissible impact force on the rollers	480				
of the toggle lever when the piston rod					
is advanced and the toggle lever is					
pushed into its end position					
Spring force	20 42				

Impact force is the basis for the calculation of permissible impact energy. Depending upon the type of load to be stopped, it is advisable to use a flexible buffer to cushion the impact, reduce noise levels and to optimise impact energy.



→ = Direction of impact force

Stopper cylinders STAF, toggle lever Technical data

Permissible mass m as a function of the conveyor speed v



Note

The required mass for reliable pushing into the end position is dependent on the friction pairing between the conveyor and conveyed goods, other friction values on request.

Cushioning time is increased for partial loads. Energy values valid for ambient temperature T = 20 °C.



1) For optimum operation of the damper

2) Required mass for reliable pushing of the toggle lever into the end position with this friction value

Materials



Stop	Stopper cylinder					
1	Piston rod	Stainless steel				
2	Flange	Die-cast aluminium				
3	Cylinder barrel	Anodised aluminium				
4	Springs	Spring steel				
5	End cap	Anodised aluminium				
6	Roller	Polyacetate				
-	Seals	Polyurethane				
-	Note on materials	Free of copper, PTFE and silicone				

Minimum distance to the conveyor



X = 62.8 ... 63.4 mm

Stopper cylinders STAF, toggle lever



Note: This product conforms to ISO 1179-1 and ISO 228-1

50

52

83

32

65

67.5

[mm] 32

Ordering data							
Piston Ø	Stroke	ge mounting					
[mm]	[mm]	Part No. Type					
32	20	164 880 STAF-32-20-P-A-K					

26

16.5

13

7.5

25

4

6.2

12

Sub-base ZVA

for stopper cylinder with flange

Material: Wrought aluminium alloy Free of copper, PTFE and silicone





Dimensions and ordering data

For Ø	B1	B2	B3	D1	CRC ¹⁾	Weight	Part No. Ty	/pe		
[mm]						[g]				
32	56	18	20	G1⁄8	2	50	164 896 Z	VA-1		
50/80	57.5	18	20	G1⁄8	2	52	164 897 Z	VA-2		

Corrosion resistance class 2 as per 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.

5

4

5

1

H4

£

For \varnothing

[mm] 32

50

80

Ŧ

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Dimensions Mounting dimensions for solenoid valves with sub-base ZVA on stopper cylinders φ 2 3-1 ¥ 5 ∰⇒ • • • -3 4 ┢╞┝ -1 £ 1 3 -3 3 1 Solenoid can be rotated by 180° • • • ±€∰⊂ ¥ 2 Solenoid rotated 180° P 4 (not as supplied) HO (H 4 3 Plug socket KME 2 4 Sub-base Ŧ 5 Filter nipple with 3/2-way L2 L1 valves, blanking plug with 5/2-way valves L L1 L2 L3 L4 L5 L6 88.5 18.5 55.5 51.5 59 35 72 36 79 28 73 65 42 71 48.5 11.5 58.5 95.5 98 39 68

For Ø [mm]	L7	L8	L9	H1	H2	H3	H4
32	35	72	42	74.5	33.5	48.5	59.5
50	34	73	52	77	31	31	57
80	31	76	71	79	29	53	56

Download CAD Data → www.festo.com/us/cad

Ordering data – Proximity sensors for T-slot, magneto-resistive						Technical data 🗲 Internet: smt		
	Type of mounting	Switch	Electrical connection	Cable length	Part No.	Туре		
		output		[m]				
N/O contact								
E SA	Insertable in the slot from above, flush	PNP	Cable, 3-wire	2.5	543 867	SMT-8M-PS-24V-K-2,5-OE		
	with cylinder profile		Plug M8x1, 3-pin	0.3	543 866	SMT-8M-PS-24V-K-0,3-M8D		
			Plug M12x1, 3-pin	0.3	543 869	SMT-8M-PS-24V-K-0,3-M12		
		NPN	Cable, 3-wire	2.5	543 870	SMT-8M-NS-24V-K-2,5-0E		
			Plug M8x1, 3-pin	0.3	543 871	SMT-8M-NS-24V-K-0,3-M8D		
1 Alexandre	Insertable in the slot lengthwise, flush	PNP	Cable, 3-wire	2.5	175 436	SMT-8-PS-K-LED-24-B		
	with the cylinder profile		Plug M8x1, 3-pin	0.3	175 484	SMT-8-PS-S-LED-24-B		
N/C contact								
ET BOT	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	7.5	543 873	SMT-8M-PO-24V-K7,5-OE		

Ordering data – Proximity sensors for T-slot, magnetic reed						Technical data 🗲 Internet: sme		
	Type of mounting	Switch	Electrical connection	Cable length	Part No.	Туре		
		output		[m]				
N/O contact								
E ST	Insertable in the slot from above, flush	Contacting	Cable, 3-wire	2.5	543 862	SME-8M-DS-24V-K-2,5-OE		
	with cylinder profile			5.0	543 863	SME-8M-DS-24V-K-5,0-OE		
			Cable, 2-wire	2.5	543 872	SME-8M-ZS-24V-K-2,5-OE		
			Plug M8x1, 3-pin	0.3	543 861	SME-8M-DS-24V-K-0,3-M8D		
1 Alexandre	Insertable in the slot lengthwise, flush	Contacting	Cable, 3-wire	2.5	150 855	SME-8-K-LED-24		
	with the cylinder profile		Plug M8x1, 3-pin	0.3	150 857	SME-8-S-LED-24		
N/C contact								
	Insertable in the slot lengthwise, flush	Contacting	Cable, 3-wire	7.5	160 251	SME-8-O-K-LED-24		
	with the cylinder profile							

Ordering data	Technical data 🗲 Internet: nebu				
	Electrical connection, left	Electrical connection, right	Cable length	Part No.	Туре
			[m]		
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 333	NEBU-M8G3-K-2.5-LE3
Carolan .			5	541 334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 338	NEBU-M8W3-K-2.5-LE3
			5	541 341	NEBU-M8W3-K-5-LE3

Ordering data – Slot cover for T-slot							
	Assembly	Length	Part No.	Туре			
		[m]					
	Insertable from	2x 0.5	151 680	ABP-5-S			
A CONTRACT	above						

Product Range and Company Overview

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