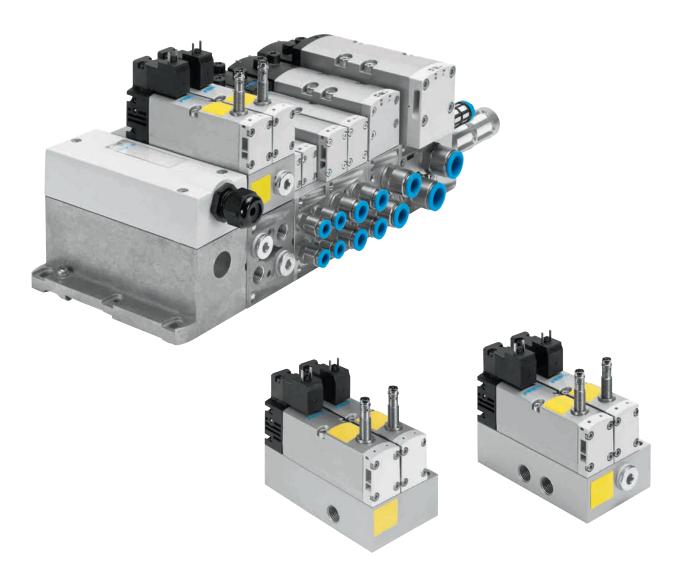
Control block VOFA with safety function

FESTO





Innovative

- Can be used for safe reversing of a hazardous movement (5/2-way solenoid valve)
- Can be used for safe exhausting (3/2-way solenoid valve function, not available as a variant for installation on a valve terminal)
- Purely mechanical solution as a press safety valve, without integrated diagnostics

Versatile

- Control block can be selected as a version for valve terminal VTSA/VTSA-F
- Control block can be selected as individual pneumatic connection
- High pressure range, $3 \dots 10$ bar
- Flow rates of up to 1050 l/min

Reliable

- Sturdy and durable metal components
- Designed as a purely mechanical solution with regard to safety

Easy to mount

- Ready-to-install and tested unit
- Reduced outlay on selection, ordering, assembly and commissioning
- Mounting via through-hole (with individual pneumatic connection)
- Mounting as vertical stacking elements on manifold sub-base of the valve terminal

- - Note

The control block with safety function VOFA must not be modified by the customer without authorisation as this invalidates the IFA approval certificate. The IFA certificate is linked to the certified safety function of the component.

Description

The control block is designed for two-channel control of pneumatic drive components such as double-acting cylinders, and can be used to realise the following protective measures:

- Protection against unexpected start-up (EN 1037)
- Reversing hazardous movements, provided the reversing movement will not lead to any further hazards (5/2-way single solenoid valve)
- Safe exhausting (with function as 3/2-way solenoid valve, normally closed)

The control attributes of the control block enable Performance Level e (up to category 4, corresponds to the highest risk level) to be achieved for the protective measures. The Performance Level (PL) is a measure of the reliability of a safety function.

The control block has been developed and manufactured in accordance with the basic and proven safety principles of EN ISO 13849-1 and

EN ISO 13849-2.

The requirements of EN ISO 13849-1 and EN ISO 13849-2 (e.g. CCF, DC) must be taken into consideration for the implementation and operation of the component, and for use in higher categories (2 to 4).

When using this product in machines or systems subject to specific C standards, the requirements specified in these standards must be observed.

The control block with safety function is designed for installation in machines and automation systems and must only be used in industrial applications (high-demand mode)!

The control block with safety function is suitable for use as a press safety valve to EN 692.

Further information and technical data in the Support Portal

→ Internet: safety engineering guidelines

Pneumatic/electrical interlinking Function

The safety function is achieved through two-channel pneumatic linking of two single solenoid 5/2-way valves, width 26 mm, within the control block:

- Port 4 is only pressurised if both solenoid valves are in switching position.
- Port 2 is always pressurised if at least one of the two solenoid valves is in normal position. The valves are reset via a mechanical spring.

The switching operation of the solenoid valves can be monitored by sensing using the proximity switch at the solenoid valves (switching position sensing).

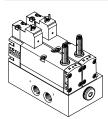
By connecting the control signal and the switching signal of the proximity switch it is possible to check if the piston spools of the solenoid valves have reached or left the normal position (expectations). The piston spools of the solenoid valves are designed so that pneumatic short circuits between ports 2 and 4 are prevented (positive overlap).

The two solenoid valves must be actuated via two separate channels to achieve the desired category 4 (Performance Level e, to EN ISO 13849-1).

The valves used are always 5/2-way solenoid valves with switching position sensing.

Design

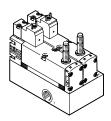
Decentralised individual connection variant, VOFA-L26-T52-...



With the decentralised individual connection variant, the electrical connection for the control block is established as an individual connection to ISO 15407-1. The pneumatic connection is also established as an individual connection. With this variant, the two 5/2-way solenoid valves are pneumatically linked using the individual sub-base via two channels.

The electrical connection for the solenoid valves is established separately via a standardised square plug to EN 175301-803, type C. The electrical connection for the inductive sensor for switching position sensing is established via a push-in connector M8x1 to EN 61076-2-104.

Decentralised individual connection variant, VOFA-L26-T32C-...



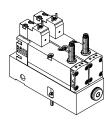
The function as a 3/2-way solenoid valve, normally closed, is intended for use for safe exhausting.



Note

The function as 3/2-way solenoid valve is only available as a decentralised individual connection variant (VOFA-L26-...).

Version for valve terminal VTSA/VTSA-F, VOFA-B26-T52-...



With the version of the control block for valve terminal VTSA/VTSA-F, the valves are actuated separately from the valve terminal via an individual electrical connection.

The pneumatic connection is established via the valve terminal VTSA/VTSA-F.

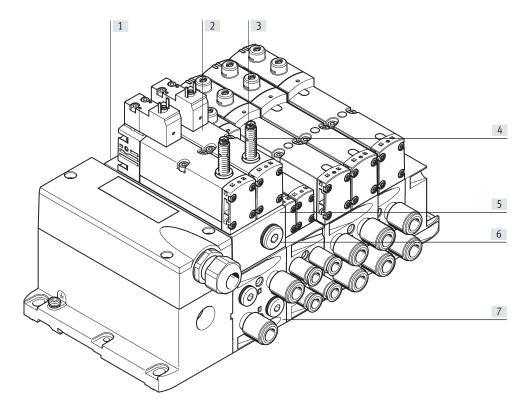
With the variant for valve terminals, the two 5/2-way solenoid valves are pneumatically linked using an intermediate plate (vertical stacking element) via two channels.

The electrical connection for the solenoid valves is established separately via a standardised square plug to EN 175301-803, type C. The electrical connection for the inductive sensor for switching position sensing is established via a push-in connector M8x1 to EN 61076-2-104.

- 🛊

- Note

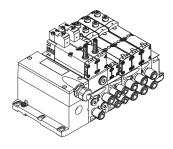
The appropriate manifold sub-base VABV-S4- ..., which is required for integration into the valve terminal, is not part of the control block. It is automatically allocated by the configurator when the control block is selected.



- [1] Control block VOFA integrated in valve terminal VTSA/VTSA-F
- [2] Two 5/2-way solenoid valves, pneumatically linked with sensing function
- [3] Inductive NPN or PNP sensor with M8 interface
- [4] Yellow status indication LED
- [5] Intermediate plate as pneumatic vertical stacking element
- [6] Optional connection for pressure gauge (at port 2)
- [7] Manifold sub-base for valve terminal VTSA/VTSA-F

Equipment options

Control block as a version for valve terminal VTSA/VTSA-F, VOFA-B26-T52-...



Two 5/2-way single solenoid valves, connected in series, linked via two channels

- · Mechanical spring
- Switching position sensing via inductive sensors with PNP or NPN output

Application:

- Protection against unexpected start-up to EN 1037
- Safe reversing
- Drives in manually loaded devices

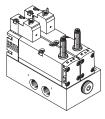


Note

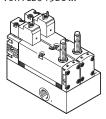
The function as 3/2-way solenoid valve is not suitable for vertical stacking (on valve terminals).

Control block as decentralised individual connection variant

VOFA-L26-T52-...



VOFA-L26-T32C-...



Two 5/2-way single solenoid valves, connected in series, linked via two channels

- · Mechanical spring
- Switching position sensing via inductive sensors with PNP or NPN output

Application:

- Protection against unexpected start-up to EN 1037
- Safe reversing (VOFA-L26-T52-...)
- Safe exhausting (VOFA-L26-T32C-..., function as 3/2-way solenoid valve)
- Drives in manually loaded devices

- 🛔

Note

The control block with safety function VOFA must not be modified by the customer without authorisation as this invalidates the IFA approval certificate.

The IFA certificate is linked to the certified safety function of the component.

Special features

Control block for valve terminal VTSA/VTSA-F

Electrical connection

- Electrical connection to EN 175301-803 type C (square plug)
- 3-pin sensor push-in connector M8

Pneumatic connection

- Via valve terminal VTSA/VTSA-F
- Pilot air supply via valve terminal
- Linked using the intermediate plate (vertical stacking) via two channels

Control block as decentralised individual connection variant

Electrical connection

- Electrical connection to EN 175301-803 type C (square plug)
- 3-pin sensor push-in connector M8

Pneumatic connection

- Individual pneumatic connection
- Internal pilot air supply
- Linked using an individual sub-base via two channels

Applications

This control block is suitable for use as a press safety valve to EN 692.

This valve is a safety device in accordance with the Machinery Directive 2006/42/EC.

The 3/2-way solenoid valve version (VOFA-L26-T32C-...) is intended for safe exhausting.

The version for valve terminals VTSA/VTSA-F and the version as individual connection variant VOFA-L26-T52-... are intended for safe reversing of a hazardous movement.

Valve terminal configurator

A valve terminal configurator is available to help you select a suitable VTSA/VTSA-F valve terminal.

The control block VOFA for the valve terminal is ordered using this valve terminal configurator, making it much easier to order the right product.

The valve terminals are fully assembled according to your order specification and are individually checked. This reduces assembly and installation time to a minimum.

Order a control block VOFA for the valve terminal VTSA using the order code:

Ordering system for VTSA

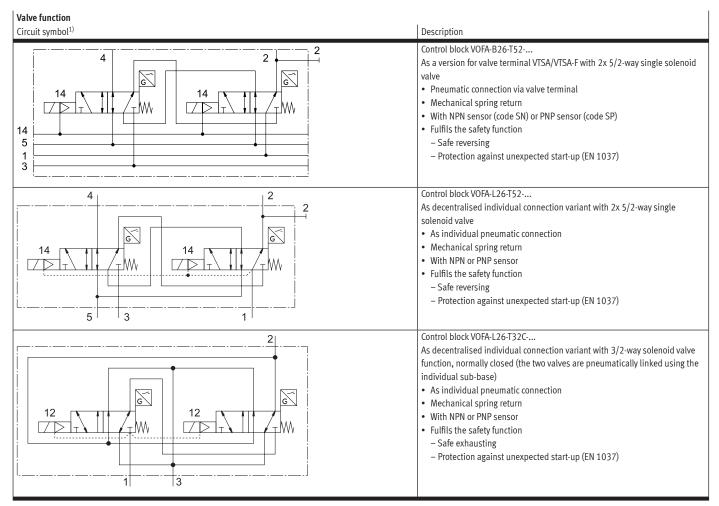
→ Internet: vtsa

→ Internet: www.festo.com

Order a control block VOFA for the valve terminal VTSA-F using the order code:

Ordering system for VTSA-F

→ Internet: vtsa-f



1) The symbol represents a valve with a proximity switch with a switching output signal, in the illustration an N/O contact. In accordance with ISO 1219-1, this symbol applies to both N/O contacts and N/C contacts. The switching element function of all sensors used here is an N/C contact.

- Note

- The 2x 5/2-way solenoid valves each have their own electrical connection.
- The 2x 5/2-way solenoid valves are pneumatically linked using an individual sub-base/intermediate plate via two channels.
- The output of the linked 2x 5/2-way solenoid valves is only switched if both valves are in switching position.

Safety characteristics								
Control block	VOFA-L26-T52	DFA-L26-T52 VOFA-B26-T52 on val						
Conforms to standard	EN 13849-1							
Safety function	Protection against manipulation, protection	against unexpected start-up						
	Reversing a movement	Exhausting	Reversing a movement					
Performance Level (PL)	against unexpected start-up/up to category 4, P	Performance Level e)						
	Reversing a movement/up to category 4,	Exhausting/up to category 4, Performance	Reversing a movement/up to category 4,					
	Performance Level e	Level e	Performance Level e					
Note on forced checking procedure	Switching frequency min. 1/week							
Certificate issuing authority	IFA 1004008	IFA 1204006	IFA 1004008					
CE marking (see declaration of conformity)	To EC Machinery Directive							
	To EU EMC Directive ¹⁾							
Max. positive test pulse with [μs]	1000							
0 signal ²⁾								
Max. negative test pulse with [µs]	800							
1 signal ²⁾								
Shock resistance ²⁾	Shock test with severity level 2, to EN 60068	3-2-27						
Vibration resistance ²⁾	Transport application test with severity level	2, to EN 60068-2-6						

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary. Please also note the safety-related applications and safety technology on the Support Portal

General technical data									
Control block		VOFA-L26-T52	VOFA-L26-T32C	VOFA-B26-T52 on valve terminal					
Design		Piston spool valve							
Standard nominal flow rate [[l/min]	950	1050	830					
Standard flow rate exhaust [$6 \rightarrow 0$ bar ¹⁾	[l/min]	-	2650	-					
Standard flow rate exhaust [[l/min]	-	1050	-					
6 → 0 bar in the event of a fault 1,2)									
Reset method		Mechanical spring							
Sealing principle		Soft							
Exhaust air function		Can be throttled							
Actuation type		Electrical							
Overlap		Positive overlap							
Type of control		Piloted							
Flow direction		Not reversible							
Exhaust air function		Can be throttled							
Suitability for vacuum		_							
Pilot air supply		Internal		Via valve terminal					
Type of mounting		Via through-hole, on manifold sub-base							
Mounting position		Any							
Manual override		-							
Signal status indication, valve		Via accessories							
Pneumatic connections									
Supply port 1	1	G1/4	G1/4	Via the manifold sub-base of the valve					
Exhausting 3	3/5	G1/4	G1/4 (3 only)	terminal					
Working ports 2	2/4	G1/4	G1/4 (2 only)]					
Pilot air supply 1	14	-	-]					
Pressure gauge		G1/4	-	G1/4					

¹⁾ Measured in direction of exhaust (2- ν 3), P = 6 bar measured with respect to atmosphere with silencer UO-1/4

A fault means: Failure of one of the two directional control valves to switch back completely.

Operating and environmental co	onditions			
Control block		VOFA-L26-T52	VOFA-L26-T32C	VOFA-B26-T52 on valve terminal
Operating medium		Compressed air to ISO 8573-1	1:2010 [7:4:4]	
Pilot medium		Compressed air to ISO 8573-1	1:2010 [7:4:4]	
Notes concerning operating/pilot medium		Lubricated operation possible	e (in which case lubricated operation will always b	e required)
Operating pressure	[bar]	3 10		0 10
Operating pressure for valve	[bar]	-		3 10
terminal with internal pilot air				
supply				
Pilot pressure	[bar]	3 10		·
Noise level LpA	[dB(A)]	85		
Ambient temperature	[°C]	-5 +50		
Temperature of medium	[°C]	-5 +50		
Nominal altitude of use	[m]	1000 to VDE 0580		
Corrosion resistance class CRC ¹⁾		0		
Certification		c UL us - Recognized (OL)		-
Certificate issuing authority		UL MH19482		-
KC mark		KC EMC		-

¹⁾ Corrosion resistance class CRC 0 to Festo standard FN 940070

No corrosion stress. Applies to small, visually unimportant standards-based parts such as threaded pins, circlips and clamping sleeves which are usually only available on the market in a phosphated or burnished version (and possibly oiled) as well as to ball bearings (for components < CRC 3) and plain bearings.

Electrical data – Control Control block	rol block		VOFA-L26-T52	VOFA-L26-T32C	VOFA-B26-T52 on valve terminal
Electrical connection	:		Plug to EN 175301-803, type C, without PE c		
Nominal operating volt	age	[V DC]	24		
Permissible voltage flu	ctuations	[%]	-15/+10		
Surge resistance		[kV]	2.5		
Pollution degree			3		
Power consumption		[W]	1.8		
Max. magnetic disrupt	ion field	[mT]	60		
Piston position sensing	g		Normal position via sensor		
Switching position ind	ication		Via accessories		
Duty cycle ED		[%]	100		
Degree of protection to	EN 60529)	IP65, NEMA 4 (for all types of signal transmis	sion in mounted state)	
Protection against dire	ct and ind	rect contact	PELV		
			Protected to EN 60950/IEC 950		
Valve switching time	On	[ms]	22	24	22
	Off	[ms]	56	54	59
Valve sensor	On	[ms]	60	58	60
switching time ¹⁾	Off	[ms]	11	11	11

¹⁾ Valve sensor switching time off: period of time from the coil being energised to sensor being switched off when using a PNP sensor.

Valve sensor switching time on: period of time from the coil being de-energised to 0-L edge at the sensor when using a PNP sensor.

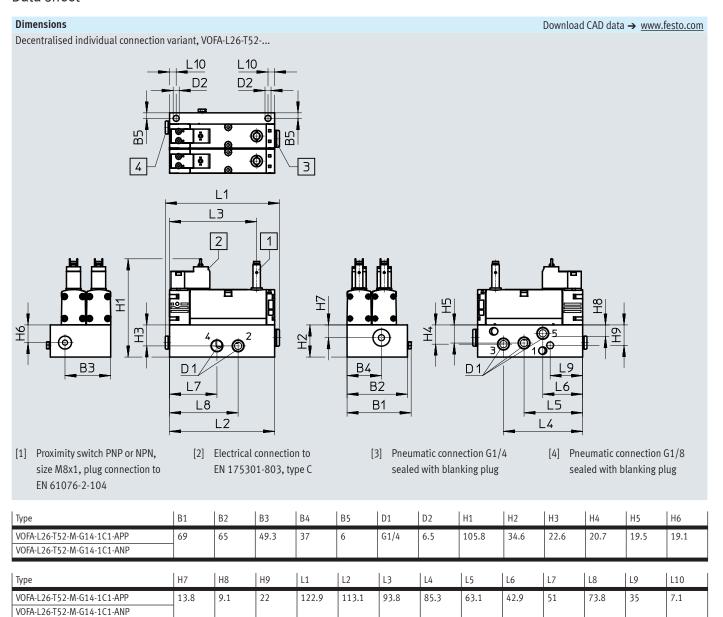


With a duty cycle of 100%, the control block must be de-energised once a week.

Control block VOFA with safety function

Electrical data – Sensor (to EN -	60947-5-2)	
Electrical connection		Cable, 3-wire
		Plug M8x1, 3-pin
Cable length	[m]	2.5
Switching output		PNP or NPN
Switching element function		N/C contact
Signal status indication		Yellow LED
Operating voltage range	[V DC]	1030
Residual ripple	[%]	±10
Sensor no-load supply current	[mA]	Max. 10
Max. output current	[mA]	200
Voltage drop	[V]	Max. 2
Max. switching frequency	[Hz]	5000
Short circuit current rating		Pulsed
Reverse polarity protection for se	nsor	For all electrical connections
Measuring principle		Inductive

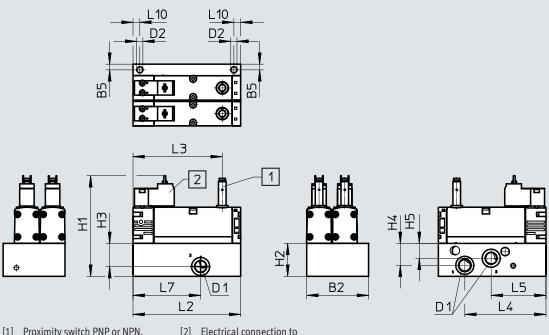
Materials		
Sub-base/manifold sub-base	Wrought aluminium alloy	
Housing	Die-cast aluminium, PA	
Seals	NBR, FPM, HNBR	
Screws	Galvanised steel	
Sensor housing	High-alloy stainless steel	
Note on materials	RoHS-compliant	



Dimensions

Download CAD data → www.festo.com

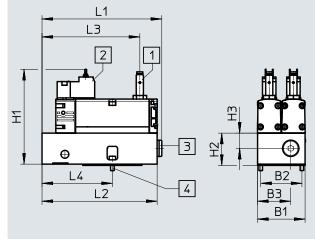
 $Decentralised\ individual\ connection\ variant\ VOF A-L26-T32 C-...$



[1] Proximity switch PNP or NPN, size M8x1, plug connection to EN 61076-2-104 [2] Electrical connection to EN 175301-803, type C

Туре	B2	B5	D1	D2	H1	H2	Н3	H4	H5	L2	L3	L4	L5	L7	L10
VOFA-L26-T32C-M-G14-1C1-APP	65	6	G1/4	6.5	105.8	34.6	24.3	23.1	15.6	113.1	93.8	85.3	57.6	71	7.1
VOFA-L26-T32C-M-G14-1C1-ANP															

Version for valve terminal VTSA/VTSA-F, VOFA-B26-T52-...



- [1] Proximity switch PNP or NPN, size M8x1, plug connection to EN 61076-2-104
- [2] Electrical connection to EN 175301-803, type C
- [3] Pneumatic connection G1/4 sealed with blanking plug
- [4] 2x screw with internal hexagon (width across flats 2.5), M4x12 (included in the scope of delivery)

Туре	B1	B2	В3	H1	H2	H3	L1	L2	L3	L4
VOFA-B26-T52-M-1C1-APP	53	46	37	105.8	34.6	17	133.7	128.5	109.2	78.5
VOFA-B26-T52-M-1C1-ANP										

Ordering data							
	Valve function	Code	Switching output	Width	Weight	Part no.	Туре
				[mm]	[g]		
Control block, version for	valve terminal VTSA/VTSA-F						
	5/2-way valve, single solenoid, mechanical spring	SP ²⁾	PNP	53	1112	_ 1)	VOFA-B26-T52-M-1C1-APP
	return, with switching position sensing via induc- tive sensor and 3-pin sensor push-in connector M8, mounted on intermediate plate for pneumatic	SN ²⁾	NPN	53	1112	_ 1)	VOFA-B26-T52-M-1C1-ANP
0000	interlinking						
Control block, as decentr	alised individual connection variant				-		
	5/2-way single solenoid valve, mechanical spring	-	PNP	65	1138	569819	VOFA-L26-T52-M-G14-1C1-APP
	return, with switching position sensing via inductive sensor and 3-pin sensor push-in connector		NPN	65	1138	569820	VOFA-L26-T52-M-G14-1C1-ANP
	M8, mounted on individual sub-base						
	Function as 3/2-way solenoid valve, normally	-	PNP	65	1134	574011	VOFA-L26-T32C-M-G14-1C1-APP
	closed, mechanical spring return, with switching position sensing via inductive sensor and 3-pin sensor push-in connector M8, mounted on individual sub-base	_	NPN	65	1134	574012	VOFA-L26-T32C-M-G14-1C1-ANP

- 1) The control block with safety function can only be ordered via the valve terminal configurator and therefore does not have a separate part number.
- 2) Code letter within the order code for a valve terminal configuration

- 🖣 - Note

Silencers – Failure of safety function (VOFA-L26-T32C-...)

The addition of commercially available silencers can cause errors ranging from a reduction in exhaust performance to complete failure of the safety function.

In order to avoid such errors, proceed as follows:

- Use a silencer of type UO-1/4 or equivalent type
- Do not use sintered metal silencers
- When using a silencer, make sure the exhaust is unobstructed (exhaust outlet should have a minimum axial clearance of 15 mm)
- The silencer and exhaust (port 3) must not be blocked



Sensors

The sensors integrated in the valves must not be replaced by the customer. Incorrect assembly can result in malfunctions or damage to the valve.

Please contact Festo in the event of a malfunction.

crition crition of individual valves socket, 3-pin, screw terminal, fitting critical connection of individual valves socket, 3-pin, with signal status indication via LED connection of sensors for switching position sensing ght socket, M8x1, 3-pin n end, 3-wire ght socket, M8x1, 3-pin n end, 3-wire ed socket, rotatable, M8x1, 3-pin n end, 3-wire		2.5 m 5 m 10 m	151687 539712 151717 151717 151688 151689 193457	MSSD-EB MSSD-EB-M12 Data sheets → Internet: meb-low MEB-LD-12-24DC KMEB-1-24-2.5-LED KMEB-1-24-5-LED KMEB-1-24-10-LED NEBU-M8G3-K-2.5-LE3
connection of individual valves socket, 3-pin, with signal status indication via LED connection of sensors for switching position sensing ght socket, M8x1, 3-pin n end, 3-wire ght socket, M8x1, 3-pin n end, 3-wire ed socket, rotatable, M8x1, 3-pin n end, 3-wire		2.5 m 5 m 10 m	151717 151688 151689 193457	Data sheets → Internet: meb-le MEB-LD-12-24DC KMEB-1-24-2.5-LED KMEB-1-24-5-LED KMEB-1-24-10-LED
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ical connection of sensors for switching position sensing ght socket, M8x1, 3-pin n end, 3-wire ght socket, M8x1, 3-pin n end, 3-wire ed socket, rotatable, M8x1, 3-pin n end, 3-wire		5 m 10 m	151689 193457	KMEB-1-24-5-LED KMEB-1-24-10-LED
ical connection of sensors for switching position sensing ght socket, M8x1, 3-pin n end, 3-wire ght socket, M8x1, 3-pin n end, 3-wire ed socket, rotatable, M8x1, 3-pin n end, 3-wire		10 m	193457	KMEB-1-24-10-LED
ght socket, M8x1, 3-pin n end, 3-wire ght socket, M8x1, 3-pin n end, 3-wire ed socket, rotatable, M8x1, 3-pin n end, 3-wire		2.5 m		
ght socket, M8x1, 3-pin n end, 3-wire ght socket, M8x1, 3-pin n end, 3-wire ed socket, rotatable, M8x1, 3-pin n end, 3-wire			541333	NEBU-M8G3-K-2.5-LE3
ght socket, M8x1, 3-pin n end, 3-wire ght socket, M8x1, 3-pin n end, 3-wire ed socket, rotatable, M8x1, 3-pin n end, 3-wire			541333	NEBU-M8G3-K-2.5-LE3
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ght socket, M8x1, 3-pin n end, 3-wire ed socket, rotatable, M8x1, 3-pin n end, 3-wire		+		
n end, 3-wire ed socket, rotatable, M8x1, 3-pin n end, 3-wire		5 m	541334	NEBU-M8G3-K-5-LE3
ed socket, rotatable, M8x1, 3-pin n end, 3-wire				
n end, 3-wire		2.5 m	8001660	NEBU-M8R3-K-2.5-LE3
ed socket, rotatable, M8x1, 3-pin		5 m	8001661	NEBU-M8R3-K-5-LE3
n end, 3-wire				
t socket, straight plug, 3-pin, 4-pin plug M8		2.5 m	554037	NEBU-M8G3-K-2.5-M8G4
ar system for a choice of connecting cables		-	-	NEBU → Internet: nebu
ting thread		G1/4	197584	U0-1/4
ting thread G1/4 for tubing O.D.	8 mm	10 pieces	186099	QS-G1/4-8
	10 mm	10 pieces	186101	QS-G1/4-10
	12 mm	10 pieces	186350	QS-G1/4-12
		10 pieses	3569	B-1/4
		ting thread G1/4 for tubing O.D. 8 mm 10 mm 12 mm	ting thread G1/4 for tubing O.D. 8 mm 10 pieces 10 mm 10 pieces 12 mm 10 pieces	ting thread G1/4 for tubing O.D. 8 mm

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