

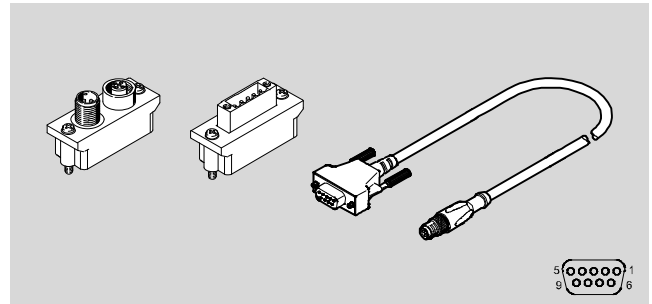
Electrical adapters, Sub-D socket, 9-pin

Technical data

FESTO

Fieldbus adapter FBA

Fieldbus adapter Sub-D, 9-pin on M12 or screw terminal, for CANopen and DeviceNet®



General technical data	
Electrical connection 1	Straight socket, Sub-D, 9-pin, field device side
Type of mounting	2 screws 4-40 UNC
Nominal operating voltage [V DC]	24
Protocol	CANopen DeviceNet®

Electrical data			
Type	FBA-2-M12-5POL	FBA-1-SL-5POL	FBA-CO-SUB-9-M12
Electrical connection 2	- Straight plug, M12x1, 5-pin, A-coded to EN 61076-2-101 - Straight socket, M12x1, 5-pin, A-coded to EN 61076-2-101	Straight plug, 5-pin	Straight plug, M12x1, 5-pin, A-coded to EN 61076-2-101
Cable length [m]	0	0	0.1
Cable diameter [mm]	–	–	6.3
Cable design [mm²]	–	–	4 x 0.34, shielded
Nominal conductor cross section [mm²]	–	–	0.34
Acceptable current load [A]	4	4	–
Degree of protection to EN 60529	IP65	IP40	IP67 in assembled state

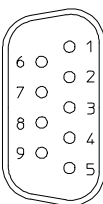
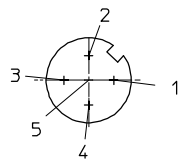
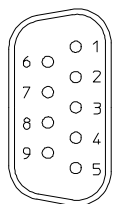
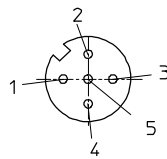
Materials			
Type	FBA-2-M12-5POL	FBA-1-SL-5POL	FBA-CO-SUB-9-M12
Housing	PA	PA	–
Housing colour	Black	Black	–
Cable sheath	–	–	TPE-U (PUR)
Pin contacts	Gold-plated bronze	Gold-plated bronze	–
Note on materials	RoHS compliant	RoHS compliant	Contains paint-wetting impairment substances

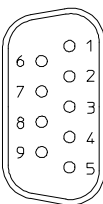
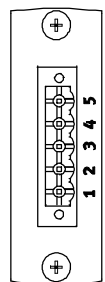
Operating and environmental conditions			
Type	FBA-2-M12-5POL	FBA-1-SL-5POL	FBA-CO-SUB-9-M12
Ambient temperature [°C]	–5 ... +50	–5 ... +50	–5 ... +50
Storage temperature [°C]	–20 ... +70	–20 ... +70	–

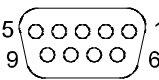
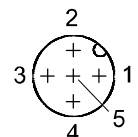
Electrical adapters, Sub-D socket, 9-pin

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Pin allocation – Sub-D/opposite side							
FBA-2-M12-5POL							
Sub-D connection	Pin	Pin	Plug	Sub-D connection	Pin	Pin	Socket
	1	–			1	–	
	2	5			2	5	
	3	3			3	3	
	4	–			4	–	
	5	1			5	1	
	6	–			6	–	
	7	4			7	4	
	8	–			8	–	
	9	2			9	2	
	Housing	1			Housing	1	

FBA-1-SL-5POL							
Sub-D connection	Pin	Pin	Plug				
	1	–					
	2	2					
	3	1					
	4	–					
	5	3					
	6	–					
	7	4					
	8	–					
	9	5					
	Housing	3					

FBA-CO-SUB-9-M12							
Sub-D connection	Pin	Pin	Plug				
	1	–					
	2	5					
	3	3					
	4	–					
	5	1					
	6	3					
	7	4					
	8	–					
	9	2					
	Housing	1					

Electrical adapters, Sub-D socket, 9-pin

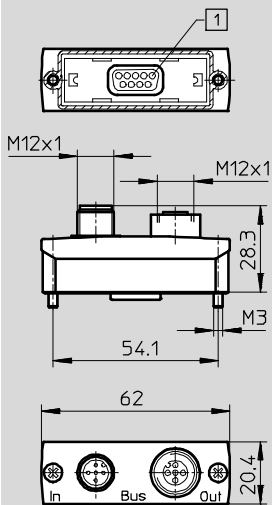
Technical data

FESTO

Dimensions

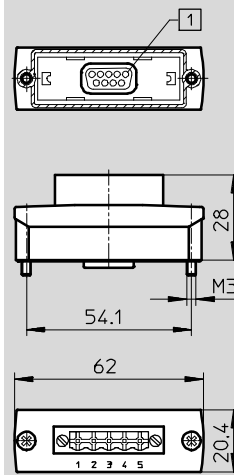
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FBA-2-M12-5POL



1 Sub-D socket, 9-pin

FBA-1-SL-...

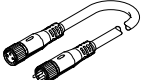


1 Sub-D socket, 9-pin

Ordering data

	Electrical connection 1	Electrical connection 2	Weight [g]	Part No.	Type
	Straight socket, Sub-D, 9-pin	• Straight plug, M12x1, 5-pin • Straight socket, M12x1, 5-pin	28	525632	FBA-2-M12-5POL
		Straight plug, 5-pin	26	525634	FBA-1-SL-5POL
		Straight plug, M12x1, 5-pin	–	540324	FBA-CO-SUB-9-M12

Ordering data – Accessories

	Electrical connection	Weight [g]	Part No.	Type
	Modular system for all types of connecting cable 0.1 ... 30 m → Internet: nebu	–	–	NEBU-...
For FBA-2-M12-5POL				
	Socket M12x1, 5-pin, straight	33	18324	FBSD-GD-9-5POL
	Plug M12x1, 5-pin, straight	23.5	175380	FBS-M12-5GS-PG9
For FBA-1-SL-5POL				
	• Angled socket, 5-pin; • Screw terminal, 5-pin • Degree of protection IP20	20	525635	FBSD-KL-2x5POL

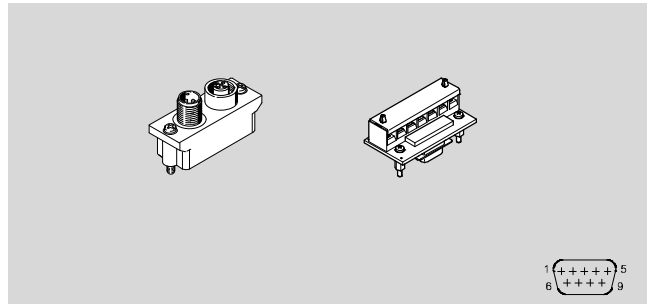
Electrical adapters, Sub-D plug, 9-pin

Technical data

FESTO

Fieldbus adapter FBA

Fieldbus adapter Sub-D, 9-pin on
M12 or screw terminal, for PROFIBUS
and CC-LINK®



General technical data	
Electrical connection 1	Straight plug, Sub-D, 9-pin, field device side
Type of mounting	2 screws 4-40 UNC
Nominal operating voltage [V DC]	24
Protocol	PROFIBUS CC-LINK®

Electrical data		
Type	FBA-2-M12-5POL-RK	FBA-1-KL-5POL
Electrical connection 2	- Straight plug, M12x1, 5-pin, B-coded to EN 61076-2-101 - Straight socket, M12x1, 5-pin, B-coded to EN 61076-2-101	Screw terminal, 5-pin
Degree of protection to EN 60529	IP65	–

Materials		
Type	FBA-2-M12-5POL-RK	FBA-1-KL-5POL
Seals	NBR	–
Note on materials	–	RoHS compliant

Operating and environmental conditions		
Type	FBA-2-M12-5POL-RK	FBA-1-KL-5POL
Ambient temperature [°C]	0 ... +50	–5 ... +50
Storage temperature [°C]	–20 ... +70	–20 ... +70
Relative humidity [%]	95, non-condensing	–

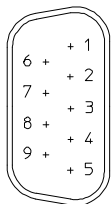
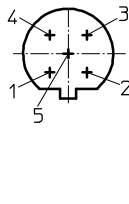
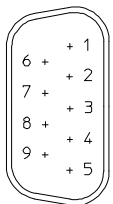
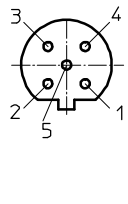
Electrical adapters, Sub-D plug, 9-pin

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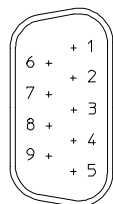
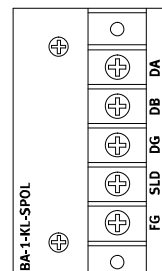
Technical data

Pin allocation – Sub-D/opposite side

FBA-2-M12-5POL-RK

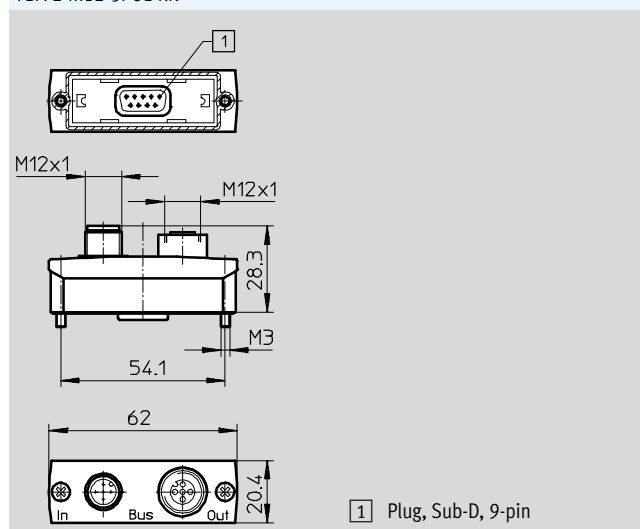
Sub-D connection	Pin	Pin	Plug	Sub-D connection	Pin	Pin	Socket
	1	5			1	5	
	2	–			2	–	
	3	4			3	4	
	4	–			4	–	
	5	–			5	3	
	6	–			6	1	
	7	–			7	–	
	8	2			8	2	
	9	–			9	–	
	Housing	Housing			Housing	Housing	

FBA-1-KL-5POL

Sub-D connection	Pin	Pin	Plug
	1	–	
	2	DA	
	3	DG	
	4	–	
	5	PG	
	6	–	
	7	DB	
	8	–	
	9	–	
	Housing	SLD	

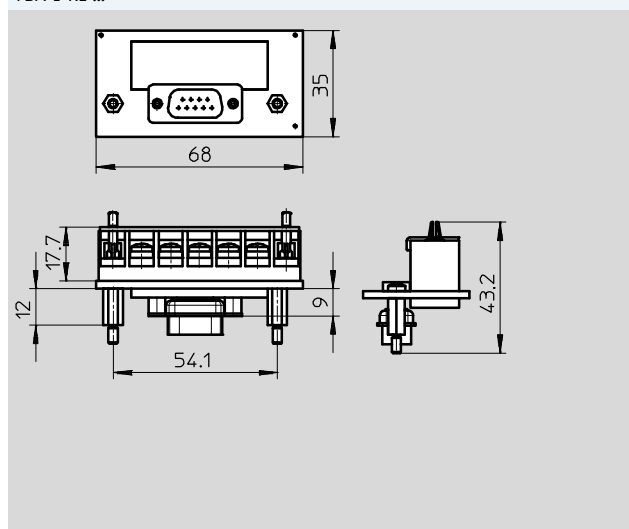
Dimensions

FBA-2-M12-5POL-RK



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FBA-1-KL-...

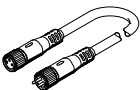
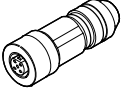
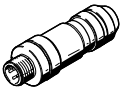


Electrical adapters, Sub-D plug, 9-pin

Technical data

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Ordering data					
	Electrical connection 1	Electrical connection 2	Weight [g]	Part No.	Type
	Straight plug, Sub-D, 9-pin	• Straight plug, M12x1, 5-pin • Straight socket, M12x1, 5-pin	80	533118	FBA-2-M12-5POL-RK
		Screw terminal, 5-pin	47	197962	FBA-1-KL-5POL

Ordering data – Accessories				
	Electrical connection	Weight [g]	Part No.	Type
	Modular system for all types of connecting cable 0.1 ... 30 m → Internet: nebu	–	–	NEBU-...
For FBA-2-M12-5POL-RK				
	Socket M12x1, 5-pin, straight	48	1067905	NECU-M-B12G5-C2-PB
	Plug M12x1, 5-pin, straight	46	1066354	NECU-M-S-B12G5-C2-PB