

Universal plug connectors, for self-assembly













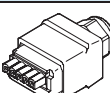

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# Universal plug connectors, for self-assembly

Product range overview

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Version	Type	Connection cross section [mm²]	Connector type	Electrical connection	Protection class	Bus protocol/activation	→ Page/ Internet
Harax® quick connection							
	NECU-S-...-HX	0.14 ... 0.34	Plug	M8x1, 3-pin	IP65, IP67	–	3
				M8x1, 4-pin			
				M12x1, 3-pin, A-coded			
				M12x1, 4-pin, A-coded			
		0.34 ... 0.75		M12x1, 3-pin, A-coded			
				M12x1, 4-pin, A-coded			
Screw terminal							
	NECU-S-M8G4 	0.14 ... 0.5	Plug	M8x1, 4-pin	IP67	–	5
	NECU-...-D12...-C2	0.14 ... 0.75	Plug	M12x1, 4-pin, D-coded	IP65, IP67	Ethernet	6
	NECU-...-S-B12G5 	0.14 ... 0.75	Plug	M12x1, 5-pin, B-coded	IP65, IP67	–	7
	NECU-...-B12G5 	0.14 ... 0.75	Socket	M12x1, 5-pin, B-coded	IP65, IP67	–	8
	NECU-G78...-C2	0.25 ... 2	Socket	G7/8", 4-pin	IP65, IP67, IP68	–	9
				G7/8", 5-pin			
Cable connector							
	NECU-M8G4	0.14 ... 0.5	Socket	M8x1, 4-pin	IP67	–	10
	SIE-GD	0.25 ... 0.75	Socket	M12x1, 4-pin	IP67	–	11
	SIE-WD-TR	0.25 ... 0.75	Socket	M12x1, 4-pin	IP67	–	12
Spring-loaded terminal							
	NECU-...-PPG5 	0.75 ... 2.5	Socket	AIDA push-pull, 5-pin	IP65, IP67	–	13

Harax® is a registered trademark of its respective trademark holder in certain countries.

# Universal plug connectors NECU, for self-assembly

Technical data

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## Plug NECU-S-...-HX

Reconnectable M8 and M12 round plug connectors with Harax® quick connection technology for low-voltage applications.



General technical data							
NECU-S-		M8G3-HX	M8G4-HX	M12G3-HX	M12G4-HX	M12G3-HX-Q7	M12G4-HX-Q7
Electrical connection		Straight plug / insulation displacement connector					
		M8x1		M12x1		M12x1	
				A-coded		A-coded	
		3-pin	4-pin	3-pin	4-pin	3-pin	4-pin
Operating voltage range	[V DC]	0 ... 32		0 ... 32		0 ... 48	
	[V AC]	0 ... 32		0 ... 32		0 ... 48	
Surge capacity	[kV]	0.8					
Acceptable current load at 40 °C	[A]	4		4		6	
Based on standard		EN 61076-2-104		EN 61076-2-101			
		EN 61984					
Cable diameter	[mm]	2.5 ... 5.1		2.9 ... 5.1		4.7 ... 6.0	
Individual wire diameter	[mm]	≥0.1					
Connection cross section	[mm²]	0.14 ... 0.34		0.14 ... 0.34		0.34 ... 0.75	
Wire diameter	[mm]	0.9 ... 1.6		0.9 ... 1.6		1.6 ... 2.0	
Wire insulation		PP		PP		–	
		PVC					
		TPE-E		TPE-E		–	
Connection frequency		3					
Max. tightening torque of locking clip	[Nm]	0.3		0.5		0.5	
Protection class		IP65					
		IP67					

Materials	
Housing	PA
	Nickel-plated die-cast zinc
Seals	FPM
	PUR
Pin contact	Gold-plated
Note on materials	Free of copper and PTFE
	RoHS-compliant

Operating and environmental conditions	
Ambient temperature	[°C] –25 ... +85
Corrosion resistance class CRC <sup>1)</sup>	1
Degree of contamination	3
Certification	cULus recognized (OL)




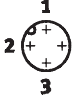
1) Corrosion resistance class 1 according to Festo standard 940 070  
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

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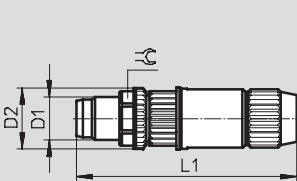
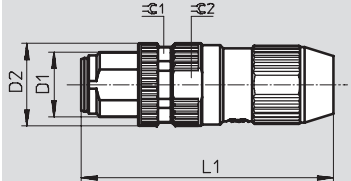
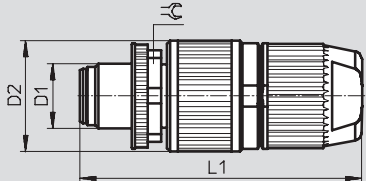
## Universal plug connectors NECU, for self-assembly

Technical data

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Plug symbols					
M8x1			M12x1		
3-pin	Pin	Wire colour	4-pin	Pin	Wire colour
	1	Brown		1	Brown
	3	Blue		2	White
	4	Black		3	Blue
				4	Black
	1	Brown		1	Brown
	3	Blue		2	White
	4	Black		3	Blue
				4	Black

Compatibility matrix						
NECU-S-	M8G3-HX	M8G4-HX	M12G3-HX	M12G4-HX	M12G3-HX-Q7	M12G4-HX-Q7
Sensors						
NEBU/SIM	■	■	■	■	–	–
SM...-8/M	■	■	■	■	–	–
SM...-10/M	–	–	–	–	–	–
SM...-10	–	–	–	–	–	–
Valves						
KME-1	–	–	–	–	■	■
KMEB-3	–	–	–	–	■	■
KMEB-1	–	–	–	–	■	■
KMC-1	–	–	–	–	■	■
KMF-1	–	–	–	–	■	■
KMV-1	–	–	–	–	■	■
KMYZ-2/3/7/9	■	■	■	■	–	–
NEBV-M8W4L	■	■	■	■	–	–
NEBV-M8G4L	■	■	■	■	–	–
NEBV-H1G2	■	■	■	■	■	■
KMEB-2	–	–	–	–	■	■

Dimensions	Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>	
NECU-S-M8G...-HX	NECU-S-M12G...-HX	NECU-S-M12G...-HX-Q7
		

Type	D1	D2	L1	≈C	≈C1	≈C2
NECU-S-M8G...-HX	M8x1	11.5	40.8	9	–	–
NECU-S-M12G...-HX	M12x1	15.3	46.75	–	13	14
NECU-S-M12G...-HX-Q7	M12x1	20.5	52.2	17	–	–

Ordering data					
Connection cross section [mm <sup>2</sup> ]	Electrical connection	Weight [g]	Part No.	Type	
0,14 ... 0,34	Plug M8x1, 3-pin, straight, insulation displacement connector	7.8	562024	NECU-S-M8G3-HX	
	Plug M8x1, 4-pin, straight, insulation displacement connector	7.8	562025	NECU-S-M8G4-HX	
	Plug M12x1, A-coded, 3-pin, straight, insulation displacement connector	17.5	562027	NECU-S-M12G3-HX	
	Plug M12x1, A-coded, 4-pin, straight, insulation displacement connector	17.5	562028	NECU-S-M12G4-HX	
0,34 ... 0,75	Plug M12x1, A-coded, 3-pin, straight, insulation displacement connector	32.8	564946	NECU-S-M12G3-HX-Q7	
	Plug M12x1, A-coded, 4-pin, straight, insulation displacement connector	33.3	564947	NECU-S-M12G4-HX-Q7	

# Universal plug connectors NECU, for self-assembly

Technical data

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## Plug NECU-S-M8G4

- Plug
- 4-pin
- Can be assembled with any cable length



General technical data		
Electrical connection	Plug M8x1, 4-pin, straight, screw terminal	
Plug coding	Coded via contact arrangement	
Operating voltage range	[V DC]	0 ... 30
	[V AC]	0 ... 30
Surge capacity	[kV]	0.8
Acceptable current load	[A]	4
Based on standard	EN 61076-2-101	
	EN 61984	
Transmission characteristics	DIN EN 50173 / CAT 5	
Permissible cable Ø	[mm]	3.5 ... 5.0
Connection cross section	[mm <sup>2</sup> ]	0.14 ... 0.5
Type of mounting	Via knurled nut	
Protection class	IP67	

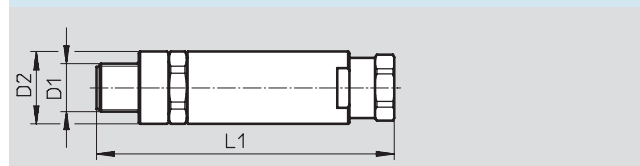
Materials	
Pin contact	Gold-plated brass
Union nut	Nickel-plated brass
Note on materials	RoHS-compliant

Operating and environmental conditions	
Ambient temperature	[°C] -25 ... +85
Degree of contamination	3

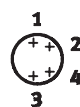
## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

### NECU-S-M8G4-C2



### Pin allocation



Type	D1	D2	L1
NECU-S-M8G4-C2	M8	12	49.6

Ordering data		
Electrical connection	Part No.	Type
Plug M8x1, 4-pin, straight	1068198	NECU-S-M8G4-C2

# Universal plug connectors NECU, for self-assembly

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Technical data

## Plug NECU-...-D12...-C2

- Plug for power supply
- 4-pin
- Can be assembled with any cable lengths
- With screw terminal



General technical data		
Electrical connection	Plug M12x1, round plug connector, 4-pin, straight, suitable for self-assembly, screw terminal, can be screened	
Plug coding	D, for Ethernet	
Operating voltage range	[V DC]	0 ... 250
	[V AC]	0 ... 250
Surge capacity	[kV]	2.5
Acceptable current load	[A]	4
Based on standard	EN 61076-2-101	
	EN 61984	
Transmission characteristics	DIN EN 50173 / CAT 5	
Permissible cable Ø	[mm]	6.0 ... 8.0
Connection cross section	[mm <sup>2</sup> ]	0.14 ... 0.75
Protection class	IP65/IP67	

Materials	
Housing	Nickel-plated die-cast zinc
Pin contact	Gold-plated brass
Note on materials	Free of copper and PTFE
	RoHS-compliant

Operating and environmental conditions	
Ambient temperature	[°C] -40 ... +85
Corrosion resistance class CRC <sup>1)</sup>	1
Degree of contamination	3
CE mark (see declaration of conformity)	To EU Low Voltage Directive

1) Corrosion resistance class 1 according to Festo standard 940 070  
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Dimensions		Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>

Ordering data			
Electrical connection	Weight [g]	Part No.	Type
Plug M12x1, round plug connector, 4-pin, straight, suitable for self-assembly, screw terminal, can be screened	47	543109	NECU-M-S-D12G4-C2-ET

# Universal plug connectors NECU, for self-assembly

Technical data

## Plug NECU-S-B12G5

- Plug
- 5-pin
- Can be assembled with any cable length



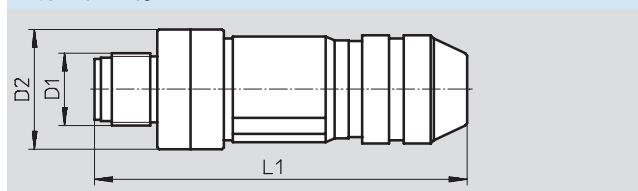
General technical data		
Electrical connection	Plug M12x1, 5-pin, straight, screw terminal	
Plug coding	B, for Profibus	
Operating voltage range	[V DC]	0 ... 60
	[V AC]	0 ... 60
Surge capacity	[kV]	1.5
Acceptable current load	[A]	4
Based on standard	EN 61076-2-101	
	EN 61984	
Transmission characteristics	DIN EN 50173 / CAT 5	
Permissible cable Ø	[mm]	6 ... 8
Connection cross section	[mm <sup>2</sup> ]	0.14 ... 0.75
Protection class	IP65/IP67	

Materials	
Housing	Nickel-plated die-cast zinc
Pin contact	Gold-plated brass
Note on materials	RoHS-compliant

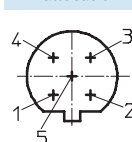
Operating and environmental conditions	
Ambient temperature	[°C] -25 ... +85
Degree of contamination	3
CE mark (see declaration of conformity)	To EU Low Voltage Directive

## Dimensions Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

NECU-M-S-B12G5



Pin allocation



Type	D1	D2	L1
NECU-M-S-B12G5	M12	20	62.5

Ordering data		
Electrical connection	Part No.	Type
Plug M12x1, 5-pin, straight	1066354	NECU-M-S-B12G5-C2-PB

## Universal plug connectors NECU, for self-assembly

Technical data

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### Socket NECU-B12G5

- Socket
- 5-pin
- Can be assembled with any cable length



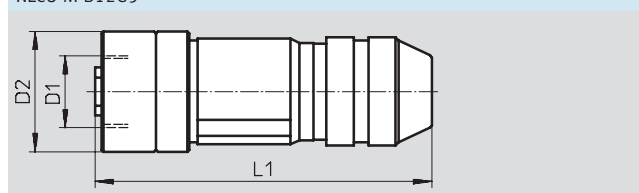
General technical data		
Electrical connection	Socket M12x1, 5-pin, straight, screw terminal	
Plug coding	B, for Profibus	
Operating voltage range	[V DC]	0 ... 60
	[V AC]	0 ... 60
Surge capacity	[kV]	1.5
Acceptable current load	[A]	4
Based on standard	EN 61076-2-101	
	EN 61984	
Transmission characteristics	DIN EN 50173 / CAT 5	
Permissible cable Ø	[mm]	6 ... 8
Connection cross section	[mm <sup>2</sup> ]	0.14 ... 0.75
Protection class	IP65/IP67	

Materials	
Housing	Nickel-plated die-cast zinc
Pin contact	Gold-plated brass
Note on materials	RoHS-compliant

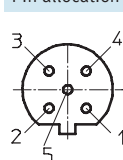
Operating and environmental conditions	
Ambient temperature	[°C] -25 ... +85
Degree of contamination	3
CE mark (see declaration of conformity)	To EU Low Voltage Directive

### Dimensions Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

#### NECU-M-B12G5



#### Pin allocation



Type	D1	D2	L1
NECU-M-B12G5	M12	20	56

Ordering data		
Electrical connection	Part No.	Type
Socket M12x1, 5-pin, straight	<b>1067905</b>	<b>NECU-M-B12G5-C2-PB</b>



# Universal plug connectors NECU, for self-assembly

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Technical data

## Power supply socket NECU-G78...-C2

- Power supply socket for fieldbus connection
- 4-pin and 5-pin
- Can be assembled with any cable lengths
- With screw terminal
- Wire cross section of up to 2 mm<sup>2</sup>



General technical data		
Type	NECU-G78G4-C2	NECU-G78G5-C2
Electrical connection	Socket 7/8", round plug connector, 4-pin, straight, suitable for self-assembly, screw terminal	Socket 7/8", round plug connector, 5-pin, straight, suitable for self-assembly, screw terminal
Plug coding	ODVA AutoSIG	NFPA/T3.5.29 R1-2003
Operating voltage range	[V DC]	0 ... 250
	[V AC]	0 ... 250
Surge capacity	[kV]	2.5
Acceptable current load	[A]	8
Based on standard	EN 61984	
Permissible cable Ø	[mm]	5.0 ... 12.0
Connection cross section	[mm <sup>2</sup> ]	0.25 ... 2.0
Protection class	IP65/IP67/IP68	

Materials	
Housing	PA (colour: black)
Seals	NBR
Pin contact	Gold-plated copper base alloy
Union nut	Nickel-plated brass
Note on materials	Free of copper and PTFE
	RoHS-compliant

Operating and environmental conditions	
Ambient temperature	[°C] -40 ... +80
Corrosion resistance class CRC <sup>1)</sup>	1
Degree of contamination	3
CE mark (see declaration of conformity)	To EU Low Voltage Directive
Certification	CSA C/US (OL)

1) Corrosion resistance class 1 according to Festo standard 940 070  
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Dimensions		Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>
		x Cable diameter 5.0 ... 12.0 mm

Ordering data			
Electrical connection	Weight [g]	Part No.	Type
Socket 7/8", round plug connector, 4-pin, straight, suitable for self-assembly, screw terminal	49	543108	NECU-G78G4-C2
Socket 7/8", round plug connector, 5-pin, straight, suitable for self-assembly, screw terminal	51	543107	NECU-G78G5-C2

# Universal plug connectors NECU, for self-assembly

FESTO

Technical data

## Cable socket NECU-M8G4

- Socket for power supply
- 4-pin
- Can be assembled with any cable lengths
- With cable connector PG7



General technical data		
Electrical connection	Socket M8x1, 4-pin, straight	
Operating voltage range	[V DC]	0 ... 30
	[V AC]	0 ... 30
Surge capacity	[kV]	0.8
Acceptable current load	[A]	3
Based on standard	EN 61984	
Permissible cable Ø	[mm]	3.5 ... 5.0
Connection cross section	[mm <sup>2</sup> ]	0.14 ... 0.5
Connection frequency	500	
Type of mounting	Via knurled nut	
Mounting position	Any	
Max. tightening torque of plug	[Nm]	0.3
Protection class	IP67	

Materials	
Housing	PBT (colour: black)
	Nickel-plated die-cast zinc
Pin contact	Gold-plated brass
Union nut	Nickel-plated brass
Note on materials	RoHS-compliant

Operating and environmental conditions		
Ambient temperature	[°C]	-40 ... +80
Storage temperature	[°C]	-40 ... +80
Corrosion resistance class CRC <sup>1)</sup>	2	
Degree of contamination	3	

1) Corrosion resistance class 2 according 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.

Dimensions		Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>
		x Cable diameter 3.5 ... 5.0 mm

Ordering data			
Electrical connection	Weight [g]	Part No.	Type
Socket M8x1, 4-pin, straight	9.5	544392	NECU-M8G4

# Universal plug connectors SIE, for self-assembly

Technical data

**FESTO**

## Sensor socket SIE-GD

- Reconnectable for low-voltage applications
- 4-pin
- Can be assembled with any cable lengths
- With cable connector PG7



General technical data		
Electrical connection		Straight socket M12x1, 4-pin
Operating voltage range	[V DC]	0 ... 250
	[V AC]	0 ... 250
Surge capacity	[kV]	2.5
Acceptable current load at 40 °C	[A]	4
Conforms to		EN 61076-2-101
		EN 61984
Permissible cable Ø	[mm]	4 ... 6
Connection cross section	[mm <sup>2</sup> ]	0.25 ... 0.75
Connection frequency		50
Type of mounting		Via knurled nut
Max. tightening torque	[Nm]	0.5
Protection class		IP67

Materials	
Housing	PA
Union nut	PA
Note on materials	RoHS-compliant

Operating and environmental conditions	
Ambient temperature	[°C] -25 ... +85
Corrosion resistance class CRC <sup>1)</sup>	4
Degree of contamination	3
CE mark (see declaration of conformity)	To EU Low Voltage Directive

1) Corrosion resistance class 4 according to Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Dimensions	Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>

Ordering data		
Electrical connection	Part No.	Type
Straight socket M12x1, 4-pin	18494	SIE-GD

# Universal plug connectors SIE, for self-assembly

Technical data

**FESTO**

## Angled socket SIE-WD-TR

- Reconnectable for low-voltage applications
- 4-pin
- Can be assembled with any cable lengths



General technical data		
Electrical connection	Angled socket M12x1, 4-pin	
Operating voltage range	[V DC]	0 ... 250
	[V AC]	0 ... 250
Surge capacity	[kV]	2.5
Acceptable current load at 40 °C	[A]	4
Conforms to	EN 61076-2-101	
	EN 61984	
Permissible cable Ø	[mm]	4 ... 6
Connection cross section	[mm <sup>2</sup> ]	0.25 ... 0.75
Connection frequency	50	
Type of mounting	Via knurled nut	
Max. tightening torque	[Nm]	0.5
Protection class	IP67	

Materials	
Housing	PA
Union nut	PA
Note on materials	RoHS-compliant

Operating and environmental conditions	
Ambient temperature	[°C] -25 ... +85
Corrosion resistance class CRC <sup>1)</sup>	4
Degree of contamination	3
CE mark (see declaration of conformity)	To EU Low Voltage Directive

1) Corrosion resistance class 4 according to Festo standard 940 070  
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

### Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

1 Contact set can be repositioned by 4x90°

2 Cable Ø

Ordering data			
	Electrical connection	Part No.	Type
Angled socket	Angled socket M12x1, 4-pin	12956	SIE-WD-TR

# Universal plug connectors NECU, for self-assembly

Technical data

## Socket NECU-PPG5

- Power supply socket
- 5-pin
- Can be assembled with any cable length



General technical data	
Electrical connection	Socket AIDA push-pull, 5-pin, straight, spring-loaded terminal
Plug coding	Black insulator
Operating voltage range [V DC]	0 ... 24
Surge capacity [kV]	2.5
Acceptable current load [A]	16
Based on standard	EN 61984
Permissible cable Ø [mm]	9 ... 13
Connection cross section [mm <sup>2</sup> ]	0.75 ... 2.5
Protection class	IP65/IP67

Materials	
Housing	Nickel-plated die-cast zinc
Housing colour	Silver
Seals	NBR, TPE
Pin contact	Nickel-plated and gold-plated copper based alloy
Note on materials	RoHS-compliant

Operating and environmental conditions	
Ambient temperature [°C]	−40 ... +100
Degree of contamination	3
Fire protection classification to UL 94	V-0

Ordering data		
Electrical connection	Part No.	Type
Socket AIDA push-pull, 5-pin, straight	<b>563059</b>	<b>NECU-M-PPG5-C1</b>

## Universal plug connectors SIE, for self-assembly

Accessories

FESTO

### Operational status indicator

#### SIE-LP-LED-GR

Indicates the ready status of a proximity sensor SIE connected via the angled socket SIE-WD-TR by illuminating a green LED



Ordering data			
Operating voltage range [V DC]	Ambient temperature [°C]	Part No.	Type
10 ... 30	-25 ... +70	12957	SIE-LP-LED-GR

## Product Range and Company Overview

### A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



**Custom Automation Components**  
Complete custom engineered solutions



**Custom Control Cabinets**  
Comprehensive engineering support and on-site services



**Complete Systems**  
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With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



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Electromechanical actuators, motors, controllers & drives



**Pneumatics**  
Pneumatic linear and rotary actuators, valves, and air supply



**PLCs and I/O Devices**  
PLC's, operator interfaces, sensors and I/O devices

### Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

### Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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