saris

wieland

saris Sensor/actuator wiring
M8 / M12 and valve connectors

▲ Sales Center in Bamberg

▲ Company headquarters in Bamberg

▲ STOCKO main plant in Wuppertal

wieland group

automation
building
electronics

ACTIVE WORLDWIDE

The Wieland Group employs more than 2,000 people all around the globe. With currently 15 locations and subsidiaries, and sales partners in more than 70 countries, Wieland Holding is present in nearly all important key markets worldwide. Always with a clear commitment to the German location where most of the products are still manufactured.

The group makes us strong

Wieland Holding is based in Bamberg, Bavaria, and comprises two independently acting subsidiaries: Wieland Electric and STOCKO Contact.

Groundbreaking innovations made Wieland Electric one of the leading suppliers of electrical connection technology. This company, founded in Bamberg in 1910, is the largest subsidiary of Wieland Holding.

STOCKO Contact is based in Wuppertal and joined the Wieland Group in 2001. Stocko has also more than 100 years of company history to its credit and is one of the largest manufacturers of connector systems and crimp contacts.

Established in industries

Control cabinet engineering, industrial automation, building system technology – our large product portfolio provides solutions for all kinds of applications.

From innovative interface and network technology to terminal blocks to "*safety first*" – with modular system solutions and safety components. With Wieland products in your control cabinet, you are always on the safe side.

Energy bus systems for distributed automation or indoor and outdoor field bus components – Wieland technology can be found everywhere, and in all kinds of applications.

In building system technology, Wieland Electric is the world market leader in pluggable eletrical installation.

There are good reasons why our system solutions can be found in the most spectacular building projects worldwide. When it comes to electronic networking, Wieland leads the way to the “smart home”.

Welcome Future

Wieland Electric is 100 years young, and full of innovative energy. And our commitment for the future is not only to find constantly new system solutions for our customers but also social responsibility.

Environmentally friendly high-tech products, manufactured to the latest production standards, an audited environmental management system and substantial investments in our locations are all part to this concept.

Global commitment and sustainable regional action – Wieland Electric is fit for the future: Contacts are green.

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The *saris* connector system – extremely flexible connecting

The *saris* connector system

Use of automation technology continues to grow. With the ***saris*** connector system, we are expanding our product range to include an important component of this technology.

The standardized components of ***saris*** make it just as suitable for wiring small functional units as it is for installing entire systems. For decentralized field installation between a PLC and sensors or actuators, the ***saris*** line is the ideal solution. Especially in automation applications, the machinery industry, the packaging industry as well as warehousing and logistics.

Thanks to the standardized connector interfaces, the ability to purchase and use worldwide and over the long term is assured. In combination with the wide variety of components such as various M8/M12 distributor boxes, for instance, ***saris*** provides a very flexible, time-saving and thus economically interesting system.

The extensive product range contains passive M8 and M12 distributor boxes, preassembled cables with M8 / M12 and valve connection as well as field-wireable connectors. Use of preassembled components virtually eliminates the potential for errors during installation. The robust construction of ***saris*** components with IP65/67 protection class permits use under harsh conditions.

All standard cables are distinguished by good oil-resistance and their high drag chain suitability.

Specifically for your requirements

Despite this extensive product range, it is not always possible to satisfy customer requirements with standard products. That is why Wieland Electric offers custom solutions for customers with special requests.

Industries and applications for ***saris***




Possible industries:

- Automation technology
- Machine building
- Packaging
- Warehousing and logistics

Our quality promise:

To guarantee our customers flawless quality, all products from Wieland are inspected multiple times and comply with international standards and regulations.

- Checked electrically 100%
- Gold-plated contacts (mating cycles > 100)
- High protection classes of IP65/67 and higher
- Shock- and vibration-proof
- Compliance with RoHS provisions

Benefits and components of *saris*

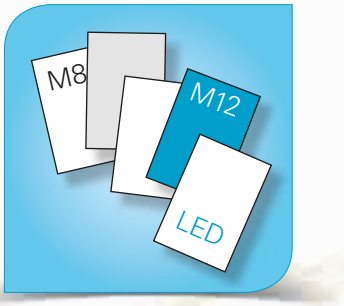
Fault diagnosis
Integrated LEDs clearly identify and localize any fault that occurs during signal transmission.

Interference-free transmission
The shielded cables sure reliable transmission of the signal.

Rugged construction
The quality of our connecting cables also means that application in harsh environments does not pose a problem.

Secure connectors
The high protection class of IP65/67 and higher permits use in dusty and humid industrial environments where mechanical stresses may occur, e.g. shock.

100% tested
To ensure a high quality standard, our products are tested electrically before shipment to the customer.



Variety
Depending on the application, various versions of the ***saris*** connector are available. Straight or angled, with or without LED.

Competent advice – one phone call suffices

Our technical service will find the appropriate product for every requirement and offers support for every phase of your project. You can reach our support at **+49 951 9324-991**

Accessories and additional information can be found in our eShop at **https://eshop.wieland-electric.com**

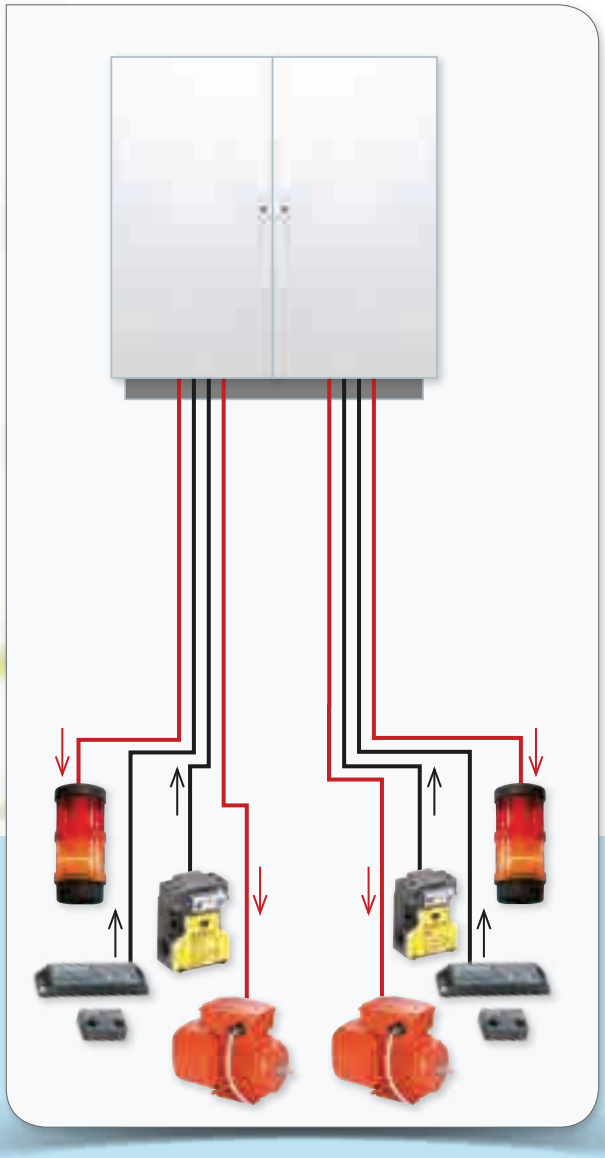
The unique wiring principle behind ***saris***

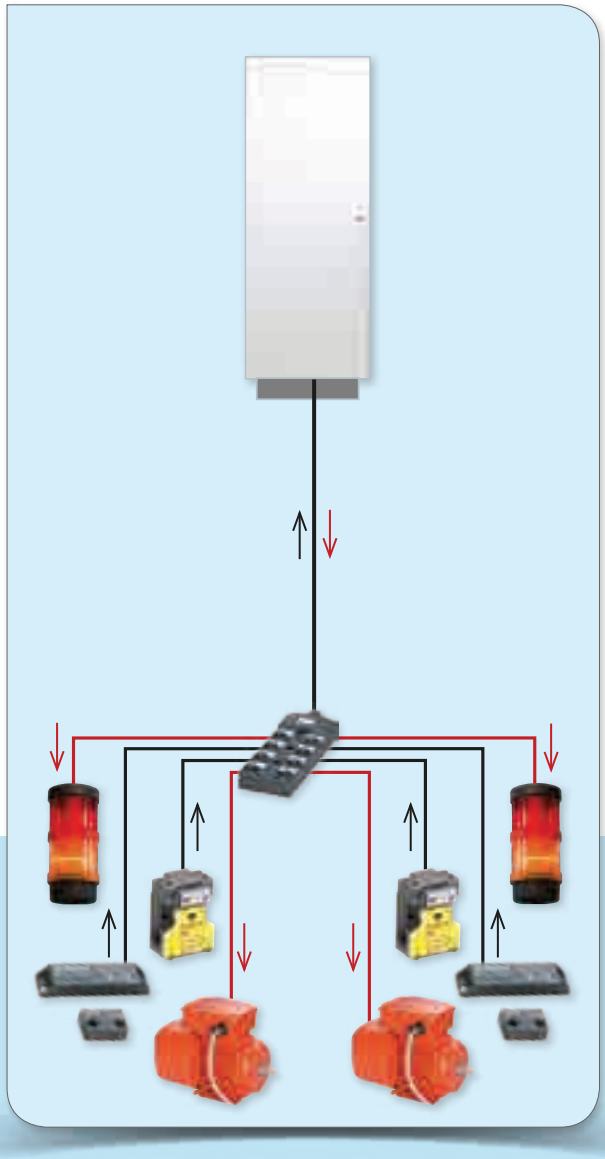
Conventional installation:

- Fixed installation
- Greater installation effort from having to run many cables
- Increased risk of installation errors
- High effort by plant expansions

Plug-in field connection with *saris*:

- Fast, flexible installation thanks to standardized, preassembled and tested components
- Fewer lines due to the variety of prepared junction boxes
- Higher machine utilization as the result of time-saving installation
- IP65/67 and higher





3-pole preassembled cables with M8/M12 termination (A-coded)

MALE END

FEMALE END	M8 straight		M12 straight		M12 angle		Free end	
	Length	Part No.	Length	Part No.	Length	Part No.	Length	Part No.
M8 straight	0.3 m	M8.K31.0311.0	0.3 m	M2.K31.0341.0			1.5 m	M8.K31.1501.0
	0.6 m	M8.K31.0611.0	0.6 m	M2.K31.0641.0			3 m	M8.K31.3001.0
	1 m	M8.K31.1011.0	1 m	M2.K31.1041.0			5 m	M8.K31.5001.0
	2 m	M8.K31.2011.0	2 m	M2.K31.2041.0			10 m	M8.K31.X001.0
M8 angle	0.3 m	M8.K31.0312.0	0.3 m	M2.K31.0342.0			1.5 m	M8.K31.1502.0
	0.6 m	M8.K31.0612.0	0.6 m	M2.K31.0642.0			3 m	M8.K31.3002.0
	1 m	M8.K31.1012.0	1 m	M2.K31.1042.0			5 m	M8.K31.5002.0
	2 m	M8.K31.2012.0	2 m	M2.K31.2042.0			10 m	M8.K31.X002.0
M8 angled with LED	0.3 m	M8.K31.0312.2	0.3 m	M2.K31.0342.2			1.5 m	M8.K31.1502.2
	0.6 m	M8.K31.0612.2	0.6 m	M2.K31.0642.2			3 m	M8.K31.3002.2
	1 m	M8.K31.1012.2	1 m	M2.K31.1042.2			5 m	M8.K31.5002.2
	2 m	M8.K31.2012.2	2 m	M2.K31.2042.2			10 m	M8.K31.X002.2
M12 straight	0.3 m	M8.K31.0314.0	0.3 m	M2.K32.0344.0			1.5 m	M2.K32.1504.0
	0.6 m	M8.K31.0614.0	0.6 m	M2.K32.0644.0			3 m	M2.K32.3004.0
	1 m	M8.K31.1014.0	1 m	M2.K32.1044.0			5 m	M2.K32.5004.0
	2 m	M8.K31.2014.0	2 m	M2.K32.2044.0			10 m	M2.K32.X004.0
M12 angle	0.3 m	M8.K31.0315.0	0.3 m	M2.K32.0345.0			1.5 m	M2.K32.1505.0
	0.6 m	M8.K31.0615.0	0.6 m	M2.K32.0645.0			3 m	M2.K32.3005.0
	1 m	M8.K31.1015.0	1 m	M2.K32.1045.0			5 m	M2.K32.5005.0
	2 m	M8.K31.2015.0	2 m	M2.K32.2045.0			10 m	M2.K32.X005.0
M12 straight with 2 LEDs							1.5 m	M2.K32.1504.2
							3 m	M2.K32.3004.2
							5 m	M2.K32.5004.2
							10 m	M2.K32.X004.2
M12 angled with 2 LEDs	0.3 m	M8.K31.0315.2	0.3 m	M2.K32.0345.2			1.5 m	M2.K32.1505.2
	0.6 m	M8.K31.0615.2	0.6 m	M2.K32.0645.2			3 m	M2.K32.3005.2
	1 m	M8.K31.1015.2	1 m	M2.K32.1045.2			5 m	M2.K32.5005.2
	2 m	M8.K31.2015.2	2 m	M2.K32.2045.2			10 m	M2.K32.X005.2
Free end	1.5 m	M8.K31.1510.0	1.5 m	M2.K32.1540.0	1.5 m	M2.K32.1550.0		
	3 m	M8.K31.3010.0	3 m	M2.K32.3040.0	3 m	M2.K32.3050.0		
	5 m	M8.K31.5010.0	5 m	M2.K32.5040.0	5 m	M2.K32.5050.0		
	10 m	M8.K31.X010.0	10 m	M2.K32.X040.0	10 m	M2.K32.X050.0		

Other variants upon request. Please note minimum order quantities in this regard.

Technical data

	M8	M8 with LED	M12	M12 with LED
Coding	-	-	A	A
Rated voltage (V)	60	24	250	24
Rated current (A)	4	4	4	4
Continuity resistance	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
Contact material	CuSn	CuSn	CuSn	CuSn
Contact surface material	Ni / Au	Ni / Au	Ni / Au	Ni / Au
Body material	TPU*	TPU*	TPU*	TPU*
Connectors according to	IEC 61076-2-104	IEC 61076-2-104	IEC 61076-2-101	IEC 61076-2-101
Material cable	PUR/PUR			
Cross-section of cable (mm²)	M8-M8/M8-M12: 0.25		M12-M12: 0.34	
Drag chain characteristics	minimum 4 mio. bending cycles			
Sheath strip length free end	50 mm +5/-10 mm			
Approvals	cULus	cULus	cULus	cULus
Protection type	IP66/67/68	IP66/67/68	IP66/67/68	IP66/67/68
Temperature range	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C

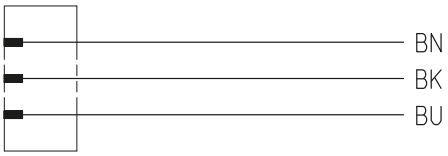
* low-flammable, self-extinguishing

Contact assignment

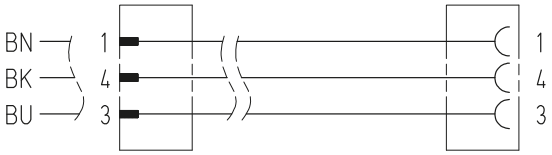
color coding		Pin assignment
BN		1
BK		4
BU		3

Circuit diagrams

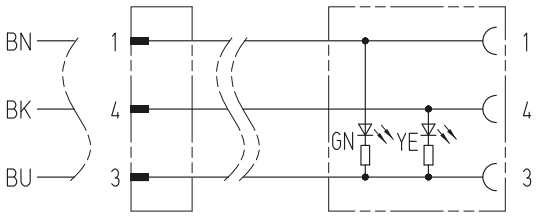
Male - free end



Free end / male - female



Free end / male - female with 2 LEDs



4-pole preassembled cables with M8/M12 termination (A-coded)

MALE END

FEMALE END	M8 straight		M12 straight		M12 angle		Free end	
	Length	Part No.	Length	Part No.	Length	Part No.	Length	Part No.
M8 straight	0.3 m	M8.K41.0311.0	0.3 m	M2.K41.0341.0			1.5 m	M8.K41.1501.0
	0.6 m	M8.K41.0611.0	0.6 m	M2.K41.0641.0			3 m	M8.K41.3001.0
	1 m	M8.K41.1011.0	1 m	M2.K41.1041.0			5 m	M8.K41.5001.0
	2 m	M8.K41.2011.0	2 m	M2.K41.2041.0			10 m	M8.K41.X001.0
M8 angle							1.5 m	M8.K41.1502.0
							3 m	M8.K41.3002.0
							5 m	M8.K41.5002.0
							10 m	M8.K41.X002.0
M12 straight			0.3 m	M2.K42.0344.0	0.3 m	M2.K42.0354.0	1.5 m	M2.K42.1504.0
			0.6 m	M2.K42.0644.0	0.6 m	M2.K42.0654.0	3 m	M2.K42.3004.0
			1 m	M2.K42.1044.0	1 m	M2.K42.1054.0	5 m	M2.K42.5004.0
			2 m	M2.K42.2044.0	2 m	M2.K42.2054.0	10 m	M2.K42.X004.0
M12 angle			0.3 m	M2.K42.0345.0			1.5 m	M2.K42.1505.0
			0.6 m	M2.K42.0645.0			3 m	M2.K42.3005.0
			1 m	M2.K42.1045.0			5 m	M2.K42.5005.0
			2 m	M2.K42.2045.0			10 m	M2.K42.X005.0
M12 straight with 2 LEDs							1.5 m	M2.K42.1504.2
							3 m	M2.K42.3004.2
							5 m	M2.K42.5004.2
							10 m	M2.K42.X004.2
M12 angle with 3 LEDs			0.3 m	M2.K42.0345.3			1.5 m	M2.K42.1505.3
			0.6 m	M2.K42.0645.3			3 m	M2.K42.3005.3
			1 m	M2.K42.1045.3			5 m	M2.K42.5005.3
			2 m	M2.K42.2045.3			10 m	M2.K42.X005.3
Free end	1.5 m	M8.K41.1510.0	1.5 m	M2.K42.1540.0	1.5 m	M2.K42.1550.0		
	3 m	M8.K41.3010.0	3 m	M2.K42.3040.0	3 m	M2.K42.3050.0		
	5 m	M8.K41.5010.0	5 m	M2.K42.5040.0	5 m	M2.K42.5050.0		
	10 m	M8.K41.X010.0	10 m	M2.K42.X040.0	10 m	M2.K42.X050.0		

Other variants upon request. Please note minimum order quantities in this regard.

Technical data

	M8	M8 with LED	M12	M12 with LED
Coding	-	-	A	A
Rated voltage (V)	30	24	250	24
Rated current (A)	4	4	4	4
Continuity resistance	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
Contact material	CuSn	CuSn	CuSn	CuSn
Contact surface material	Ni / Au	Ni / Au	Ni / Au	Ni / Au
Body material	TPU*	TPU*	TPU*	TPU*
Connectors according to	IEC 61076-2-104	IEC 61076-2-104	IEC 61076-2-101	IEC 61076-2-101
Material cable	PUR/PUR			
Cross-section of cable (mm²)	M8-M8/M8-M12: 0.25		M12-M12: 0.34	
Drag chain characteristics	minimum 4 mio. bending cycles			
Sheath strip length free end	50 mm +5/-10 mm			
Approvals	cULus	cULus	cULus	cULus
Protection type	IP65/67/68	IP65/67/68	IP65/67/68	IP65/67/68
Temperature range	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C

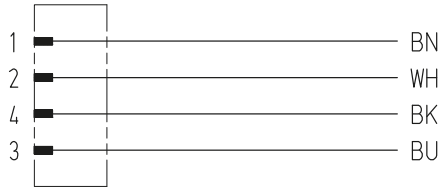
* low-flammable, self-extinguishing

Contact assignment

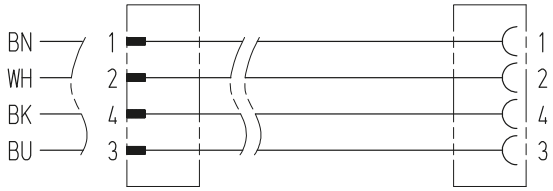
color coding	Pin assignment
BN	1
WH	2
BK	4
BU	3

Circuit diagrams

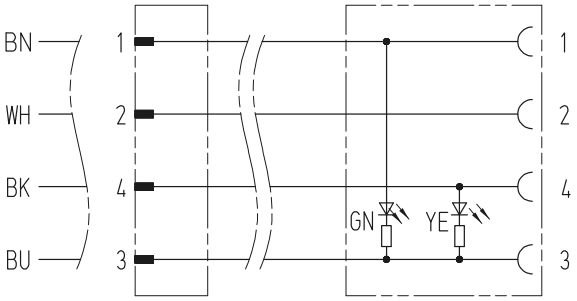
Male - Free end



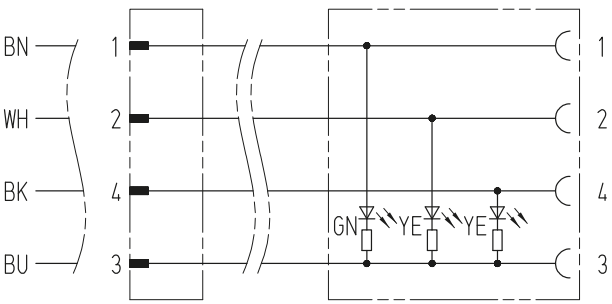
Free end / male - female



Free end / male - female with 2 LEDs



Free end / male - female with 3 LEDs



5-pole preassembled cables with M12 termination (A-coded)

FEMALE END	MALE END: M12 straight		MALE END: M12 angle		MALE END: Free end	
	Length	Part No.	Length	Part No.	Length	Part No.
M12 straight	0.3 m	M2.K52.0344.0			1.5 m	M2.K52.1504.0
	0.6 m	M2.K52.0644.0			3 m	M2.K52.3004.0
	1 m	M2.K52.1044.0			5 m	M2.K52.5004.0
	2 m	M2.K52.2044.0			10 m	M2.K52.X004.0
M12 angle					1.5 m	M2.K52.1505.0
					3 m	M2.K52.3005.0
					5 m	M2.K52.5005.0
					10 m	M2.K52.X005.0
M12 angle with 3 LEDs					1.5 m	M2.K52.1505.3
					3 m	M2.K52.3005.3
					5 m	M2.K52.5005.3
					10 m	M2.K52.X005.3
Free end	1.5 m	M2.K52.1540.0	1.5 m	M2.K52.1550.0		
	3 m	M2.K52.3040.0	3 m	M2.K52.3050.0		
	5 m	M2.K52.5040.0	5 m	M2.K52.5050.0		
	10 m	M2.K52.X040.0	10 m	M2.K52.X050.0		

Other variants upon request. Please note minimum order quantities in this regard.

Technical data

	M12	M12 with LED
Coding	A	A
Rated voltage (V)	60	24
Rated current (A)	4	4
Continuity resistance	≤ 5 mΩ	≤ 5 mΩ
Contact material	CuSn	CuSn
Contact surface material	Ni / Au	Ni / Au
Body material	TPU*	TPU*
Connectors according to	IEC 61076-2-101	IEC 61076-2-101
Material cable	PUR/PUR	
Cross-section of cable (mm²)	0.34	0.34
Drag chain characteristics	minimum 4 mio. bending cycles	
Sheath strip length free end	50 mm +5/-10 mm	
Approvals	cULus	cULus
Protection type	IP65/67/68	IP65/67/68
Temperature range	-25 °C … +90 °C	-25 °C … +90 °C

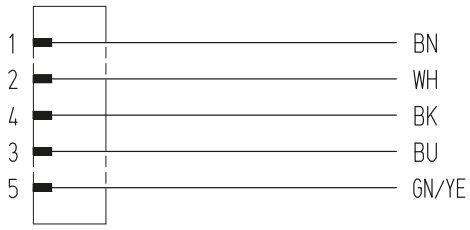
* low-flammable, self-extinguishing

Contact assignment

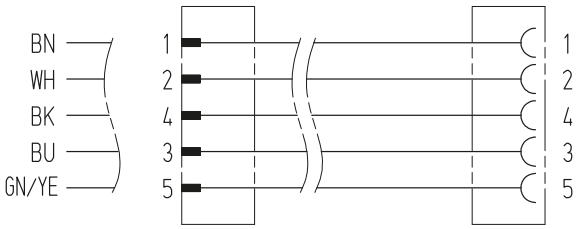
color coding	Pin assignment
BN	1
WH	2
BK	4
BU	3
GNYE	5

Circuit diagrams

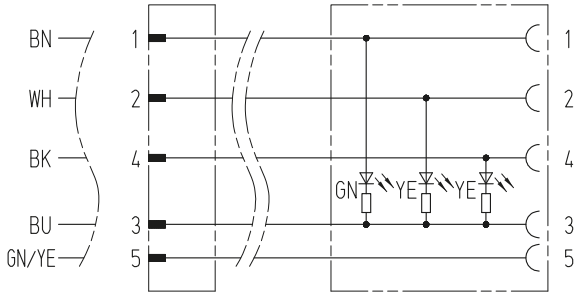
Male - Free end



Free end / male - female



Free end / male - female mit 3 LED´s



M12 connector with two-wire cable (A-coded)

with M8 female termination

MALE END

M12 with two-wire cable (4-pole)

FEMALE END

M8 straight

Length	Part No.
0.3 m	M2.K31.0361.0
0.6 m	M2.K31.0661.0
1 m	M2.K31.1061.0
2 m	M2.K31.2061.0

M8 angle

Length	Part No.
0.3 m	M2.K31.0362.0
0.6 m	M2.K31.0662.0
1 m	M2.K31.1062.0
2 m	M2.K31.2062.0

M8 angled with 2 LEDs

Length	Part No.
0.3 m	M2.K31.0362.2
0.6 m	M2.K31.0662.2
1 m	M2.K31.1062.2
2 m	M2.K31.2062.2

with M12 female termination

MALE END

M12 with two-wire cable (4-pole)

FEMALE END

M12 straight, jumpered

Length	Part No.
0.3 m	M2.K32.0364.B
0.6 m	M2.K32.0664.B
1 m	M2.K32.1064.B
2 m	M2.K32.2064.B

M12 angled, jumpered

Length	Part No.
0.3 m	M2.K32.0365.B
0.6 m	M2.K32.0665.B
1 m	M2.K32.1065.B
2 m	M2.K32.2065.B

M12 angled with 2 LEDs

Length	Part No.
0.3 m	M2.K32.0365.5
0.6 m	M2.K32.0665.5
1 m	M2.K32.1065.5
2 m	M2.K32.2065.5

Free end

Length	Part No.
1.5 m	M2.K32.1560.0
3 m	M2.K32.3060.0
5 m	M2.K32.5060.0
10 m	M2.K32.X060.0

Technical data

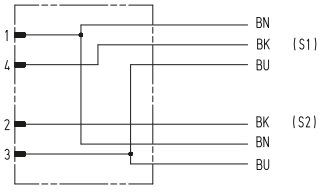
	M8	M8 with LED	M12	M12 with LED
Coding	-	-	A	A
Rated voltage (V)	60	24	250	24
Rated current (A)	4	4	4	4
Continuity resistance	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
Contact material	CuSn	CuSn	CuSn	CuSn
Contact surface material	Ni / Au	Ni / Au	Ni / Au	Ni / Au
Body material	TPU*	TPU*	TPU*	TPU*
Connectors according to	IEC 61076-2-104	IEC 61076-2-104	IEC 61076-2-101	IEC 61076-2-101
Material cable	PUR/PUR			
Cross-section of cable (mm²)	M8-M8/M8-M12: 0.25		M12-M12: 0.34	
Drag chain characteristics	minimum 4 mio. bending cycles			
Sheath strip length free end	50 mm +5/-10 mm			
Approvals	cULus	cULus	cULus	cULus
Protection type	IP66/67/68	IP66/67/68	IP66/67/68	IP66/67/68
Temperature range	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C

* low-flammable, self-extinguishing

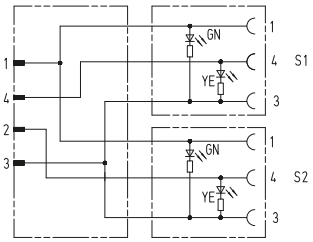
Other variants upon request. Please note minimum order quantities in this regard.

Circuit diagrams

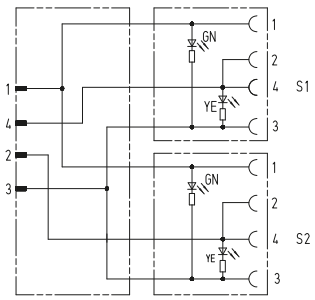
Y-male - 2 x free end



Y-male - 2 x M8 female (2 LEDs)



Y-male - 2 x M12 female, jumpered (2 LEDs)

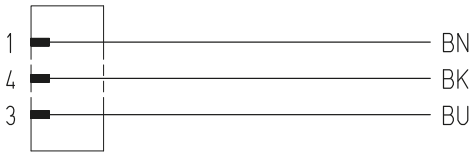


M12 connector with shielded cable (A-coded)

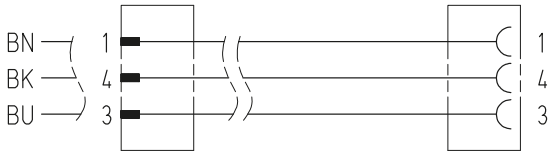
3-pole

FEMALE END	MALE END: Free end	Length	Part No.
Male M12 straight		1.5 m	M2.K37.1540.S
		3 m	M2.K37.3040.S
		5 m	M2.K37.5040.S
		10 m	M2.K37.X040.S
Female M12 straight		1.5 m	M2.K37.1504.S
		3 m	M2.K37.3004.S
		5 m	M2.K37.5004.S
		10 m	M2.K37.X004.S

Male - free end



Free end / male - female

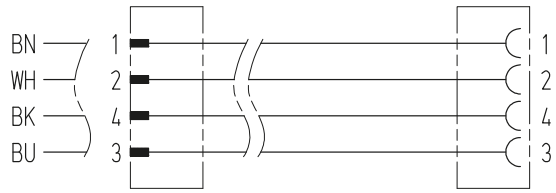


4-pole

FEMALE END	MALE END: Free end	Length	Part No.
Male M12 straight		1.5 m	M2.K47.1540.S
		3 m	M2.K47.3040.S
		5 m	M2.K47.5040.S
		10 m	M2.K47.X040.S
Female M12 straight		1.5 m	M2.K47.1504.S
		3 m	M2.K47.3004.S
		5 m	M2.K47.5004.S
		10 m	M2.K47.X004.S

Male - free end

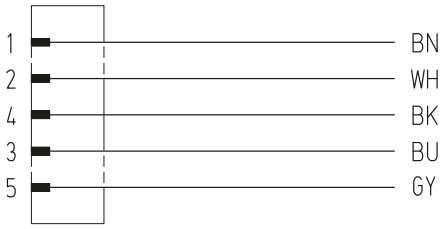
Free end / male - female



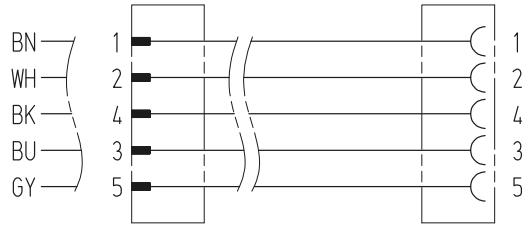
5-pole

FEMALE END	MALE END: Free end	Length	Part No.
Male M12 straight		1.5 m	M2.K57.1540.S
		3 m	M2.K57.3040.S
		5 m	M2.K57.5040.S
		10 m	M2.K57.X040.S
Female M12 straight		1.5 m	M2.K57.1504.S
		3 m	M2.K57.3004.S
		5 m	M2.K57.5004.S
		10 m	M2.K57.X004.S

Male - free end



Free end / male - female



Valve connectors, assembled

VALVE CONNECTORS

MALE END

	M12 straight (A-coded)		M12 straight (A-coded)		3-pol free end		5-pole free end	
	Length	Part No.	Length	Part No.	Length	Part No.	Length	Part No.
Version A with 1 LED + Z-diode 24 V	0.3 m	M2.K33.034A.Z			1.5 m	M2.K33.150A.Z		
	0.6 m	M2.K33.064A.Z			3 m	M2.K33.300A.Z		
	1 m	M2.K33.104A.Z			5 m	M2.K33.500A.Z		
	2 m	M2.K33.204A.Z			10 m	M2.K33.X00A.Z		
Version AD with 2 LEDs			0.3 m	M2.K53.034D.2			1.5 m	M2.K53.150D.2
			0.6 m	M2.K53.064D.2			3 m	M2.K53.300D.2
			1 m	M2.K53.104D.2			5 m	M2.K53.500D.2
			2 m	M2.K53.204D.2			10 m	M2.K53.X00D.2
Version B with 1 LED + Z-diode 24 V	0.3 m	M2.K33.034B.Z			1.5 m	M2.K33.150B.Z		
	0.6 m	M2.K33.064B.Z			3 m	M2.K33.300B.Z		
	1 m	M2.K33.104B.Z			5 m	M2.K33.500B.Z		
	2 m	M2.K33.204B.Z			10 m	M2.K33.X00B.Z		
Version BI with 1 LED + Z-diode 24 V	0.3 m	M2.K33.034N.Z			1.5 m	M2.K33.150N.Z		
	0.6 m	M2.K33.064N.Z			3 m	M2.K33.300N.Z		
	1 m	M2.K33.104N.Z			5 m	M2.K33.500N.Z		
	2 m	M2.K33.204N.Z			10 m	M2.K33.X00N.Z		
Version C with 1 LED + Z-diode 24 V	0.3 m	M2.K33.034C.Z			1.5 m	M2.K33.150C.Z		
	0.6 m	M2.K33.064C.Z			3 m	M2.K33.300C.Z		
	1 m	M2.K33.104C.Z			5 m	M2.K33.500C.Z		
	2 m	M2.K33.204C.Z			10 m	M2.K33.X00C.Z		
Version CI with 1 LED + Z-diode 24 V	0.3 m	M2.K33.034U.Z			1.5 m	M2.K33.150U.Z		
	0.6 m	M2.K33.064U.Z			3 m	M2.K33.300U.Z		
	1 m	M2.K33.104U.Z			5 m	M2.K33.500U.Z		
	2 m	M2.K33.204U.Z			10 m	M2.K33.X00U.Z		

Technical data

	Version A	Version AD**	Version B	Version BI	Version C	Version CI
Rated voltage (V)	24	24	24	24	24	24
Rated current (A)	4	4	4	4	4	4
Continuity resistance	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
M12 contact material	CuSn	CuSn	CuSn	CuSn	CuSn	CuSn
Valve connector contact material	CuSn	CuSn	CuSn	CuSn	CuSn	CuSn
M12 contact surface material	Ni/Au	Ni/Au	Ni/Au	Ni/Au	Ni/Au	Ni/Au
Valve connector contacts surface material	Sn	Sn	Sn	Sn	Sn	Sn
M12 body material	TPU*	TPU*	TPU*	TPU*	TPU*	TPU*
valve connector case material	TPU*	TPU*	TPU*	TPU*	TPU*	TPU*
Connectors M12 according to	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101
Valve connector to	EN 175301-803	-	EN 175301-803	-	EN 175301-803	-
Material cable						
Cross-section of cable (mm²)	0.5					
Number of poles	3	5	3	3	3	3
Approvals						
Protection type	IP 65/67	IP 65/67	IP 65/67	IP 65/67	IP 65/67	IP 65/67
Temperature range male	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C	-25 °C … +90 °C
Temperature range Valve connector	-20 °C … +85 °C	-25 °C … +85 °C	-20 °C … +85 °C	-20 °C … +85 °C	-20 °C … +85 °C	-20 °C … +85 °C

* low-flammable, self-extinguishing

**** for pressure switches**

Contact assignment

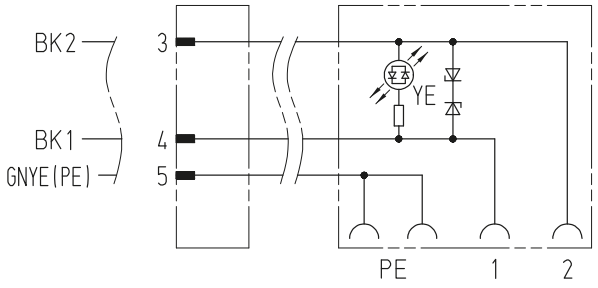
color coding	Pin assignment valve connector	Pin assignment M12 connector
BK2	2	3
BK1	1	4
GNYE	PE	5

Version AD

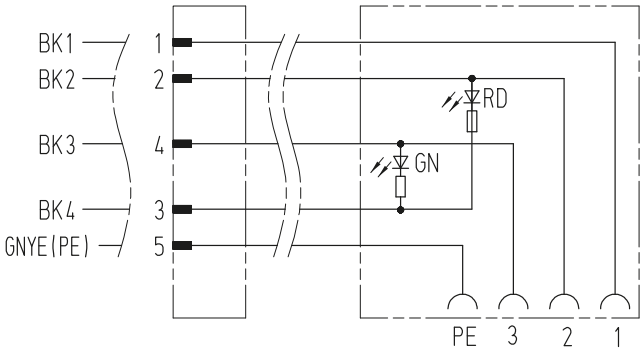
color coding	Pin assignment valve connector	Pin assignment M12 connector
BK1	1	1
BK2	2	2
BK3	3	4
BK4	jumpered on pole 2	3
GNYE	PE	5

Circuit diagrams

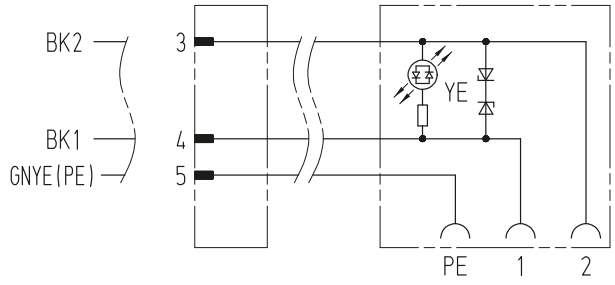
Version A, C, CI



Version AD



Version B, BI

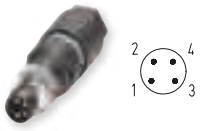


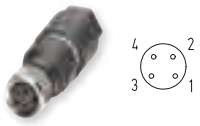
M8 field-wireable connector with IDC termination

3-pole

Type	Typ	Part No.
M8 IDC termination	**0.08 mm² - 0.25 mm²**	
Male, straight		M8.F3S.0003.0
Female, straight		M8.F3B.0003.0
M8 IDC termination	**0.25 mm² - 0.5 mm²**	
Male, straight		M8.F3S.0103.0
Female, straight		M8.F3B.0103.0

4-pole





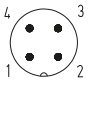
Type	Typ	Part No.
M8 IDC termination	**0.08 mm² - 0.25 mm²**	
Male, straight		M8.F4S.0003.0
Female, straight		M8.F4B.0003.0
M8 IDC termination	**0.25 mm² - 0.5 mm²**	
Male, straight		M8.F4S.0103.0
Female, straight		M8.F4B.0103.0

Technical data

M8 connector to	IEC 61076-2-104	
Pollution degree	3	
Protection type	IP65/67	
Connecting type	IDC termination	
Cable diameter	2.5 mm … 5 mm ± 0.2 mm	
Approvals		
Electrical data	**3-pole**	**4-pole**
Rated voltage	60 V	30 V
Rated current	4 A	
Continuity resistance	≤ 5 mΩ	
Insulation resistance	≥ 100 MΩ	
Material data		
Contact material / Contact surface material	CuSn / Ni / AU	
Material contact carrier	TPU GF	
Flammability class to UL94	HB	
Temperature range	-25 °C … +80 °C	

M12 field-wireable connector with IDC termination (A-coded)

4-pole



Type	Typ	Part No.
M12 IDC termination	**0.14 mm² - 0.34 mm²**	
Male, straight		M2.F4S.0003.0
Female, straight		M2.F4B.0003.0
M12 IDC termination	**0.34 mm² - 0.75 mm²**	
Male, straight		M2.F4S.0103.0
Female, straight		M2.F4B.0103.0

4-pole/5-pole shielded

Type	Typ	Part No.
M12 IDC termination 4-pole	**0.14 mm² - 0.75 mm²**	
Male, straight, shielded		M2.F4S.0201.S
Female, straight, shielded		M2.F4B.0201.S
M12 IDC termination 5-pole	**0.14 mm² - 0.75 mm²**	
Male, straight, shielded		M2.F5S.0201.S
Female, straight, shielded		M2.F5B.0201.S

Technical data

	0.14 mm² ... 0.34 mm²	**0.34 mm² ... 0.75 mm²**
M12 connector to	IEC 61076-2-101	
Pollution degree	3	
Protection type	IP65/67	
Connecting type	IDC termination	
Cable diameter	3.5 mm … 6 mm	4 mm … 8 mm
Coding	A - Standard	
Approvals	cULus	
Electrical data		
Rated voltage	125 V	250 V
Rated current	4 A	
Continuity resistance	≤ 5 mΩ	
Insulation resistance	≥ 100 MΩ	
Material		
Contact material / Contact surface material	CuSn / Ni / AU	
Material contact carrier	TPU	
Flammability class to UL94	V0	
Temperature range Connector/bushing	-25 °C … +80 °C	

M8 distributor boxes

with main distribution cable (PU/PVC)

Type		Part No.
M8 distributor boxes with main distribution cable		
Slots	**Length**	
4	5 m	M8.D34.L513.P
4	10 m	M8.D34.LX13.P
6	5 m	M8.D36.L513.P
6	10 m	M8.D36.LX13.P
8	5 m	M8.D38.L513.P
8	10 m	M8.D38.LX13.P
10	5 m	M8.D3X.L513.P
10	10 m	M8.D3X.LX13.P

with M12 connection

M8 distributor boxes with M12 connection		
Slots		
4		M8.D34.M123.P
6		M8.D36.M123.P

with M16 connection

M8 distributor boxes with M16 connection		
Slots		
4		M8.D34.M163.P
6		M8.D36.M163.P
8		M8.D38.M163.P
10		M8.D3X.M163.P

Technical data

	with main distribution cable	M12, vertical	M16, vertical
Protection class to IEC 60529 / EN 60529		IP65/67	
M8 connector to		IEC 61076-2-104	
Material cable		PUR/PVC	
Status display		with LED	
Signal type		pnp	
Approvals		cULus	
Electrical data			
Rated current per I/O signal		2 A	
Rated current per slot		2 A	
Rated current, overall	6 A	4 A	6 A
Rated voltage		24 V DC	
Dimensions			
Width x Height (mm)	30 x 22	30 x 27	30 x 26
Length (4-/6-/8-/10 slots) (mm)	102 / 122 / 141 / 161	93 / 113 / - / -	93 / 113 / 132 / 152
Temperature range			
Distributor bo		-30 °C … +80 °C	
Main distribution cable, fixed installation	-40 °C … +90 °C	-	-
Main distribution cable, movable installation	-5 °C … +80 °C	-	-

M12 distributor boxes (A-coded)

with main distribution cable

Type			Part No.
singly populated			
Slots	**Length**	**LED**	
4	5 m	no	M2.D44.L510.0
4	10 m	no	M2.D44.LX10.0
4	5 m	yes	M2.D44.L510.P
4	10 m	yes	M2.D44.LX10.P
8	5 m	no	M2.D48.L510.0
8	10 m	no	M2.D48.LX10.0
8	5 m	yes	M2.D48.L510.P
8	10 m	yes	M2.D48.LX10.P
doubly populated			
Slots	**Length**	**LED**	
4	5 m	no	M2.D54.L520.0
4	10 m	no	M2.D54.LX20.0
4	5 m	yes	M2.D54.L520.P
4	10 m	yes	M2.D54.LX20.P
8	5 m	no	M2.D58.L520.0
8	10 m	no	M2.D58.LX20.0
8	5 m	yes	M2.D58.L520.P
8	10 m	yes	M2.D58.LX20.P

with connector hood Threaded connection

Type			Part No.
singly populated			
Slots		**LED**	
4		no	M2.D44.S030.0
4		yes	M2.D44.S030.P
8		no	M2.D48.S030.0
8		yes	M2.D48.S030.P
doubly populated			
Slots		**LED**	
4		no	M2.D54.S040.0
4		yes	M2.D54.S040.P
8		no	M2.D58.S040.0
8		yes	M2.D58.S040.P

suitable for cables with outer diameter 7 – 12 mm

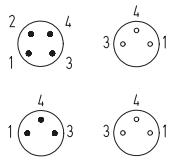
Technical data

	with main distribution cable	plug-in threaded connection, horizontal
Protection class to IEC 60529 / EN 60529	IP65/67	
M12 connector to	IEC 61076-2-101	
Material cable	PUR/PVC	
Status display	with LED / without LED	
Signal type	pnp (with LED) / universal (without LED)	
Approvals	cULus	
Electrical data		
Rated current per I/O signal	2 A	
Rated current per slot	4 A	
Rated current, overall	12 A	10 A
Rated voltage	24 V DC (with LED) / 120 V (without LED)	
Dimensions		
Width x Height (mm)	54 x 23	54 x 43
Length (4-/6-/8-/10 slots) (mm)	117 / 123 / 149 / -	
Temperature range		
Distributor bo	-25 °C … +80 °C	
Main distribution cable, fixed installation	-40 °C … +90 °C	-
Main distribution cable, movable installation	-5 °C … +80 °C	-

M8/M12 Y-splitter (A-coded)

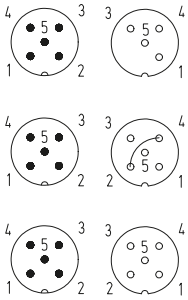
Y-splitter M8 / M12

3-pole



Type	Typ	Part No.
M8 Y-splitter	**4-/ 3-pole**	
M8 male on 2x M8 female		M8.D4Y.0403.N
M8 Y-splitter	**3-pole parallel**	
M8 male on 2x M8 female		M8.D3Y.0003.0

4-pole + PE



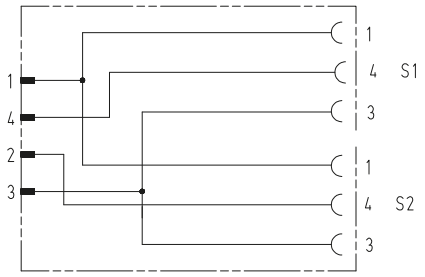
M12 Y-splitter	**4-pole + PE**	
unjumpered		
M12 male on 2x M12 female		M2.D5Y.0403.N
Pins 2 and 4 jumpered	**4-pole + PE**	
M12 male on 2x M12 female		M2.D5Y.0403.B
M12 Y-splitter	**4-pole + PE parallel**	
M12 male on 2x M12 female		M2.D5Y.0003.0

Technical data

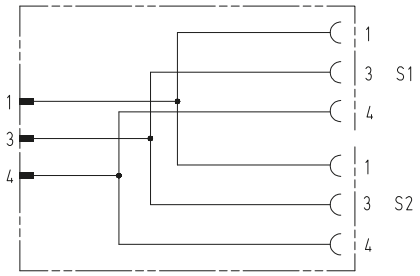
Round M8 connector to:	IEC 61076-2-104
Round M12 connector to:	IEC 61076-2-101
Pollution degree	3
Protection type	IP65/67
Approvals	
Electrical data	
Rated voltage	60 V
Rated current	4 A
Continuity resistance	≤ 5 mΩ
Material data	
Contact material	CuZn
Contact surface material	Ni/Au
Flammability class to UL94	HB
Temperature range Connector/bushing	-25 °C … +90 °C

Circuit diagrams

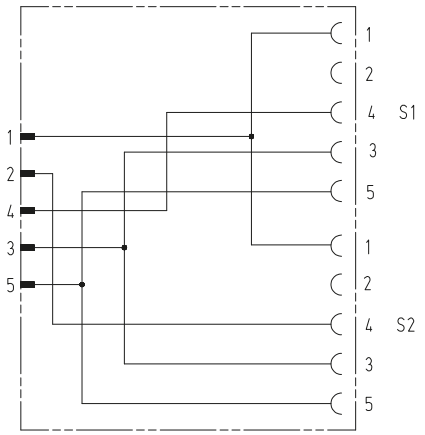
4-/ 3-pole



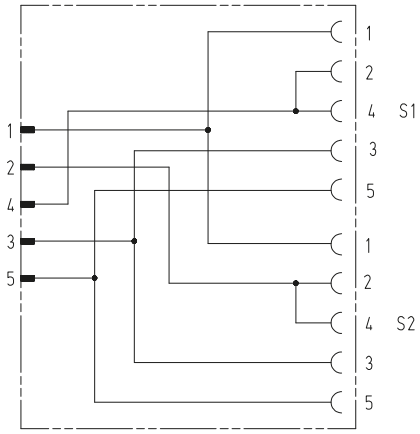
3-pole parallel



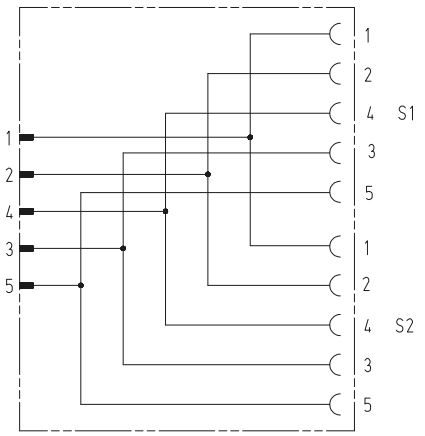
4-pole + PE/unjumpered



4-pole + PE/Pins 2 and 4 jumpered



4-pole + PE parallel



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  - Safety switching devices
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  - Industrial Ethernet switches
  - PLC and I/O systems, standard and increased environmental conditions
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  - Overvoltage protection
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  - Timer relays, measuring and monitoring relays
  - Analog coupling and converter modules
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  - Fieldbus interfaces and motor starters
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  - Aluminium or plastic housings
  - Degree of protection up to IP 69K
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  - Connectors for hazardous areas
  - Modular, application-specific technology

PC board terminals and connectors

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- Reflow or wave soldering process

Building and installation technology

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  - Low-voltage connectors
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  - Room automation with KNX and wireless technology
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection

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contacts are green.