

SENSOR/ACTUATOR Connectors for the automation industry



M8-connector				female			male		female		male				T	T			
M8-connector	•			fem	nale		male female screwable				m	ale		fem			ma	ale	
					unshie	elded	screv	vable		shie	lded					ap ielded			
				LED		LED								with locking mechanism		with locking mechanism			
Cable qualities ‡	Avail	lable polarities ↘	1	1	→	\rightarrow	1	₽	1	₽	1	⊢	1	1	\vdash	→	1	→	
	POO PVC/PVC	affordable standard cable	3, 4, 5, 8	3	3, 4, 5, 8	3, 4	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5	3, 4	3, 4, 5	3, 4	3, 4, 5	3, 4, 5	
UL .	PO1 PVC/PVC	affordable standard cable, UL	3, 4	3	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	
	P01BK PVC/PVC	affordable standard cable, UL	3, 4	3	3, 4	3, 4	3, 4	3, 4					3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	
K CONTRACTOR OF THE PARTY OF TH	S370 PUR/PP	for torsion & drag chain, weldfield immune, UL	3, 4, 5, 8	3	3, 4, 5, 8	3, 4	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5, 8	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	
Poposososos	S370GY PUR/PP	for torsion & drag chain, weldfield immune, UL	3, 4	3	3, 4	3, 4	3, 4	3, 4	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	
(<u>0</u>	S7400 PUR/PP robotic	for strong mechanical stress	3, 4	3	3, 4	3, 4	3, 4	3, 4					3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	
Contraction of the Contraction o	S400 PUR/PP easystrip	manual stripping up to 1.5m	3, 4, 5		3, 4, 5	3, 4	3, 4, 5	3, 4, 5					3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	3, 4, 5	





M12-connector

screwable																	
					unshi	elded						shie					
		grip body with thread	LED		grip body with thread	LED		grip body with thread		grip body with thread							
	1	1	1	⊢	\rightarrow	\vdash	Ť	1	ightharpoonup	→	1	ightharpoonup	Ť	⊢	✓ Available po	larities	Cable qualities ↓
	3, 4 4+PE 5, 8, 12	4	3, 4	3, 4 4+PE 5, 8, 12	4	3, 4, 5	3, 4 4+PE 5, 8, 12	4	3, 4 4+PE 5, 8, 12	4	3, 4, 5 8, 12	affordable standard cable	POO PVC/PVC	==			
	3, 4 4+PE 5, 8, 12	4	3, 4	3, 4 4+PE 5, 8, 12	4	3, 4, 5	3, 4 4+PE 5, 8, 12	4	3, 4 4+PE 5, 8, 12	4	3, 4, 5 8, 12	affordable standard cable, UL	P01 PVC/PVC	<u> </u>			
	3, 4 4+PE	4	3, 4	3, 4 4+PE	4	3, 4, 5	3, 4 4+PE	4	3, 4 4+PE	4					affordable standard cable, UL	P01BK PVC/PVC	<u> </u>
	3, 4 4+PE 5, 8, 12	4	3, 4	3, 4 4+PE 5, 8, 12	4	3, 4, 5	3, 4 4+PE 5, 8, 12	4	3, 4 4+PE 5, 8, 12	4	3, 4, 5 8, 12	for torsion & drag chain, weldfield immune, UL	S370 PUR/PP	- Dong			
	3, 4 4+PE 5, 8, 12	4	3, 4	3, 4 4+PE 5, 8, 12	4	3, 4, 5	3, 4 4+PE 5, 8, 12	4	3, 4 4+PE 5, 8, 12	4	3, 4, 5 8, 12	for torsion & drag chain, weldfield immune, UL	S370GY PUR/PP	O DOGO			
	3, 4 4+PE 5	4	3, 4	3, 4 4+PE 5	4	3, 4, 5	3, 4 4+PE 5	4	3, 4 4+PE 5	4					for strong mechanical stress	S7400 PUR/PP robotic	<u> </u>
	3, 4 4+PE 5, 8, 12	4	3, 4	3, 4 4+PE 5, 8, 12	4	3, 4, 5	3, 4 4+PE 5, 8, 12	4	3, 4 4+PE 5, 8, 12	4					manual stripping up to 1.5m	S400 PUR/PP easystrip	Section 1

ESCHA

M8 Receptacle















		fen	nale	m	ale	fen	nale	male			
	Mounting thread →	M8	x0,5	M8	x0,5	M1	0x1	M8x1			
	Mounting type →		Front wall	mounting			mounting				
Connecting type ↓	Housing material → Available polarities ➤	Nickel-plated	Stainless steel								
Wire connection	straight	3, 4, 5, 8	3, 4, 5	3, 4, 5, 8	3, 4, 5	3, 4, 5, 8	3, 4, 5	3, 4, 5, 8	3, 4, 5		
Print connection	straight					3, 4, 5, 8	3, 4, 5	3, 4, 5, 8	3, 4, 5		
Print contact shielded	straight					3, 4, 5, 8		3, 4, 5, 8			
Print contact shielded	angled					3, 4, 5		3, 4, 5			

M12 Receptacle

















		fen	nale	m	ale	fem	nale	male				
	Mounting type →		Front wall	mounting		Back wall mounting						
Connecting type Available	Housing material \rightarrow polarities \downarrow Mounting thread \searrow	Nickel-plated	Stainless steel									
Wire connection	straight 3, 4, 4+PE, 5, 8, 12-poles A-coded	M12x1 M16x1.5 PG9	M16x1.5 PG9	M12x1 M16x1.5 PG9	M16x1.5 PG9	M12x1 M16x1.5 PG9	M16x1.5	M12x1 M16x1.5 PG9	M16x1.5			
Wire connection coding positionable	straight 3, 4, 4+PE, 5, 8, 12-poles A-coded	M16x1.5 PG9	M16x1.5	M16x1.5 PG9	M16x1.5							
Print connection	straight 3, 4, 4+PE, 5, 8, 12-poles A-coded					M12x1 M16x1.5 PG9	M16x1.5	M12x1 M16x1.5 PG9	M16x1.5			
Print connection shielded	straight 3, 4, 4+PE, 5, 8, 12-poles A-coded					M16x1.5 PG9		M16x1.5 PG9				



Valve connector

All versions are available in cable qualities PVC (P00), PVC with UL, (P01) and PUR (S370).



	U[max] I [max] →			24Vac/[oc 4A	230 VAC/DC 4A							
	Housing style →	А	AA	AAG	DA	B/BI	C/CI	А	AA	AAG	B/BI	C/CI	
Contact assignment ↓	protection circuit >												
2+PE						without Transil- diode		without*	without	without	without* Varistor	without*	
2+PE PE-jumpered		without Transil- diode	without Transil- diode	without Transil- diode	Transildiode		without Z-Diode	without Varistor	Varistor	Varistor			
3+PE		Transildiode						without					
3+PE wire-connection		without	without	without									

^{*} optionally without LED

M12 Field-wireable



























Housing style →				female				male										
	shielded			unshi	ielded			shielded			unshi	elded						
↓Connecting type				Stainle	ss steel					ss steel								
Available polarities >	1	1	\vdash	1	H	1	ightharpoonup	1	1	ightharpoonup	1	₽	1	ightharpoons				
Screw-/Clamp	4, 5, 8	4, 5, 8	4, 5, 8	5	5			4, 5, 8	4, 5, 8	4, 5, 8	5	5						
Soldering contact	12	12	12					12	12	12								
IDC-connection						3, 4	4						3, 4	4				





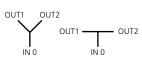








Exit





Cable

PUR

S370

Top

Version → Cable qualities → M12

Connectors + Polarity

Top

M12

12

Cable

PUR

S370

Top

M12

12

Cable

PUR

S370

Top

M12

8 | 12

Cable

PUR

S370

Top

M12

12













Cable

PUR

S370

1140																					
Housing Style →		S89			MB			S55			Υ			Y shielded	ł .		T			T shielded	ł.
M: male/F:female + Polarity >	IN 0	OUT 1	OUT 2	IN 0	OUT 1	OUT 2	IN 0	OUT 1	OUT 2	IN 0	OUT 1	OUT 2	IN 0	OUT 1	OUT 2	IN 0	OUT 1	OUT 2	IN 0	OUT 1	OUT 2
M12	M4	F3	F3	M5	F5	F5	M5	F5	F5				M5	F5	F5	F4	F4	M4	F4	F4	M4
	F4	M3	МЗ	F5	M5	F5	M4	F3	F3				F5	M5	F5	F4	M4	M4	F5	F5	M5
	M5	F5	F5	M5	M5	F5							F5	M5	M5	F5	F5	M5	F5	M5	M5
				M8	F8	F8							M5	M5	F5	F5	M5	M5	F8	F8	M8
													M8	F8	F8	F8	F8	M8			
M12 LED	M4	F3	F3	M5	F5	F5							M5	F5	F5						
M12 AND				M5	F5	F5															
M12 > 2x M8	M4	F3	F3							M4	F3	F3									
M8 > 2x Ø8 snap										M4	F3	F3									
M8				M3	F3	F3															
				M4	F3	F3															
M8 LED				M4	F3	F3															
M8 AND				M3	F3	F3															

I/O-Modules	• <u>•</u> ••• ••• •••	• • • • • • • • • • • • • • • • • • •				•0		0	o:.:o o:.:o			• • • • • • • • • • • • • • • • • • •		
Design inputs →			Ν	<i>1</i> 8			Ø8r	mm snap			M12			
Number of ports	4	1		8	10	4	1	10		4	6		8	
Poles count of ports	3	3, 4	3	3, 4	3	3, 4	3, 4	3		3+PE 4+PE	3+PE 4+PE		3+PE 4+PE	

Cable

PUR/S370

PVC/P01

Тор

M23

12 | 19

Front

M23

12 | 19

Cable

PUR

S370

Top

M23

12 | 19

Front

M23

12 | 19

Cable

PUR

S370

Top

M23

12 | 19

Front

M23

12 | 19



■ Single- | double-ended cordsets

ROUND CONNECTOR

M12 | A-coded

- Polarity: 3, 4, 4+PE, 5, 8, 12
- LED-version
- 360°-shielded: 3, 4, 5, 8, 12
- Grip body with thread for for protective hose
- Coupling nut: Nickel-plated, Plastic (4 Colors)

M8

- Polarity: 3, 4, 5, 8
- LED-Version, 360°-shielded

Ø8mm snap

- Polarity: 3, 4, 5
- With locking mechanism
- 7 cable qualities PUR/PVC
- Good media- and temperature resistance
- IP65 | IP67 | IP68
- UL-approved
- Protective caps, protective plugs, marking accessories

■ Back- | Front wall mounting

- Wire contact | Print contacts
- Housing: Nickel-plated

RECEPTACLES

M12 | A-coded

- Polarity: 3, 4, 4+PE, 5, 8, 12
- Coding location positionable (Front wall installation)
- 360°-shielded (Print)
- Screw-in thread: M12x1 | M16x1.5 | PG9

M8

- Polarity: 3, 4, 5, 8
- Straight+ angled (Print)
- 360°-shielded (Print)
- Screw-in thread: M8x0.5 | M8x1
- Good media- and temperature resistance
- IP65 | IP67 | IP68
- Protective caps, protective plugs, separate counter nuts

Housing style: S89 | MB |S55 | T-Splitter | Y-Splitter

Y-Splitter with cable outlet

Y- | T-SPLITTER

using Niekal plated

M12 | A-coded

- Polarity: 3, 4, 5, 8, 12
- LED-Versions
- AND-Circuit logic

LED-Versions

■ 360°-shielded

M8

- Polarity: 3, 4
- LED-Versions
- 3 Cable qualities PUR/PVC
- Good media- and temperature resistance
- IP65 | IP67 | IP68
- UL-approved
- Protective caps, protective plugs, marking accessories, assembly and fastening accessories

ADAPTER

M12 > M12

A-coded | 5-poles female > female male > male

M8 > M12

M8 female > M12 male 3-, 4-poles

M8 > M8

■ 3-pol. female > 4-pol. male 4-pol. female > 3-pol. male

M12 > Valve connector

- A-coded, 5-poles > housing style A
- 24V/4A | 2+PE jumpered without protection circuit
- 24V/4A | 2+PE jumpered with suppressor diode
- 24V/4A | 3+PE Litze without protection circuit
- 60V/4A | 2+PE jumpered without protection circuit
- Good media- and temperature resistance
- IP65 | IP67 | IP68

M12 | A-Coded

I/O MODULE

- Ports/poles count: 4, 6, 8 / 3+PE, 4+PE-poles
- Exit/poles count: fixed cable connection (PUR), Top, Front: M23 /12-, 19-poles

M8

- Ports/poles count: 4, 8, 10 / 3-, 4-poles
- Exit/poles count: fixed cable connection (PUR), Top: M12 / 8-, 12-poles
- optional passive circuit logic 4xAND, 8xAND, 2x4 AND

Ø8mm snap

- Ports/poles count: 4, 10 / 3-, 4-poles
- Exit/poles count: Top, M12:
 8-, 12-poles | Fixed cable connections two cable qualities
- Good media- and temperature resistance
- IP65 | IP67 | IP68
- Protective caps, protective plugs, marking accessories

VALVE CONNECTOR

- Single- | double-ended cordsets
- 24V/4A | 230V/4A with/without protection circuit
- Circuit: 2+PE | 2+PE jumpered3+PE | 3+PE wire-connection
- LED-Version

Housing style A

 Angled | straight| straight with grip body with thread for protective hose | doublevalve connector

Housing style B/BI

Angled

Housing style C/CI

- Angled
- 3 cable qualities PUR/PVC
- good media- and temperature resistance
- IP65 | IP67 | IP68
- Protective hoses, Color rings, Marking accessories