

M8/M12 distributor, Sensor junction box



distributor

Y distributor

30V 4A

Technical characteristics

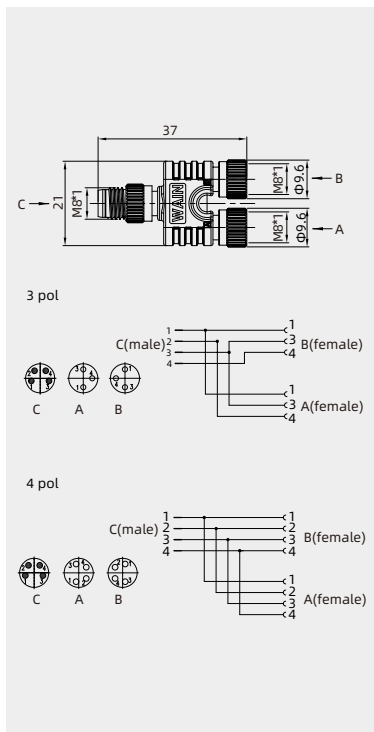
Number of contacts	4/3	4/4
Rated current (40°C)	4A	4A
Rated voltage	30V	30V
Rated impulse voltage	800V	800V
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 3mΩ	≤ 3mΩ
Connector locking system	screw	screw
Termination	-	-
Wire gauge	-	-
Cable outlet	-	-
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PA	PA
Material of housing	TPU	TPU

Y distributor

Remark: SPQ is 1pc

Three-way, male connector M8 x 1
- 2 female connectors M8 x 1

	Designation	Order No.
4-2*3pole	M8Y-M04/2M8-F03-NX	171 202 004 0317
4-2*4pole	M8Y-M04/2M8-F04-NX	171 202 004 0219



Y distributor

60V/250V 4A

Technical characteristics

Number of contacts	5/4	5/5
Rated current (40°C)	4A	4A
Rated voltage	250V	60V
Rated impulse voltage	2500V	1500V
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw	screw
Termination	-	-
Wire gauge	-	-
Cable outlet	-	-
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PA	PA
Material of housing	TPU	TPU

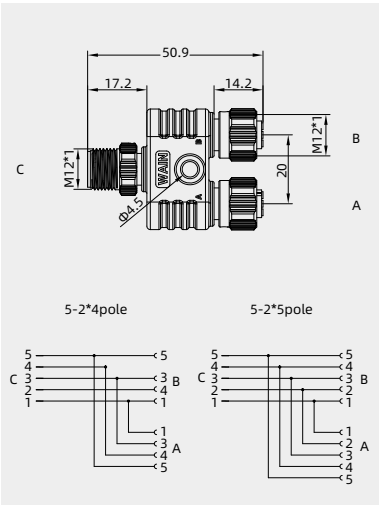
Y distributor

Remark: SPQ is 1pc

Three-way, male connector M12 x 1
- 2 female connectors M12 x 1



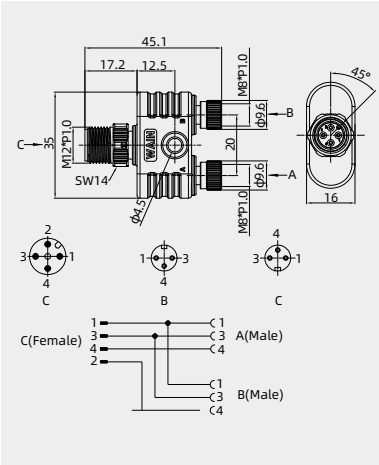
	Designation	Order No.
5-2*4pole	M12Y-M05A/2M12-F04A-NX	171 302 005 0318
5-2*5pole	M12Y-M05A/2M12-F05A-NX	171 302 005 0320



Three-way, male connector M12 x 1
- 2 female connectors M12 x 1



	Designation	Order No.
4-2*3pole	M12Y-M04A/2M8-F03-NX	163 010 000 8500



Y distributor

60V/250V 4A

Technical characteristics

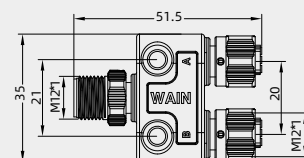
Number of contacts	4/3	5/5
Rated current (40°C)	4A	4A
Rated voltage	250V	60V
Rated impulse voltage	2500V	1500V
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw	screw
Termination	-	-
Wire gauge	-	-
Cable outlet	-	-
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PA	PA
Material of housing	TPU	TPU

Y distributor

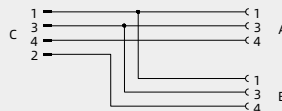
Remark: SPQ is 1pc

Three-way, male connector M12 x 1
- 2 female connectors M12 x 1

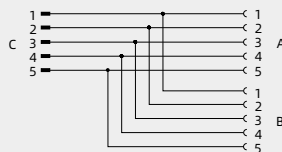
	Designation	Order No.
4-2*3pole	M12Y-M04A/2M12-F03A-CX	171 302 003 0301
5-2*5pole	M12Y-M05A/2M12-F05A-CX	171 302 005 0301



4/3 pol



5 pol



Y distributor

60V 4A

Technical characteristics

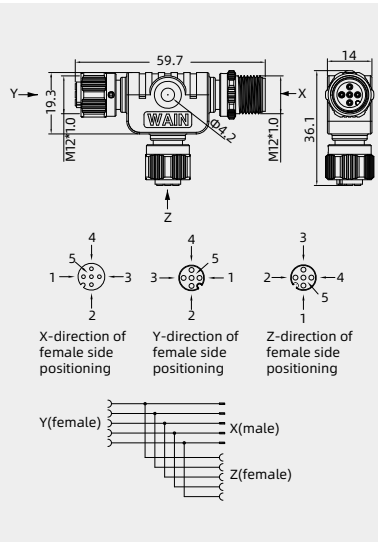
Number of contacts	5/5
Rated current (40°C)	4A
Rated voltage	60V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screwM12*1
Termination	-
Wire gauge	-
Cable outlet	-
Degree of protection	IP67
Mechanical operation	> 100
Limiting temperature	-25°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	TPU

Y distributor

Remark: SPQ is 1pc

Three-way, male connector M12 x 1
- 2 female connectors M12 x 1

	Designation	Order No.
5-2*5pole	M12T-M05A/2F05A-NX	163 005 000 1003



Y distributor

60V 4A

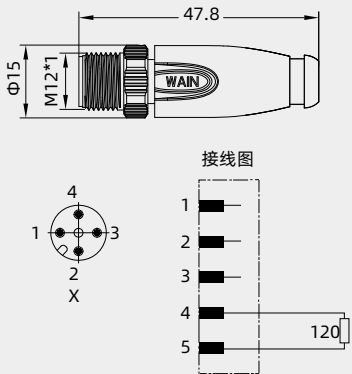
Technical characteristics

Number of contacts	5
Rated current (40°C)	4A
Rated voltage	60V
Rated impulse voltage	-
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screwM12*1
Termination	-
Wire gauge	-
Cable outlet	-
Degree of protection	IP67
Mechanical operation	> 100
Limiting temperature	-25°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	TPU

M12 Terminal resistance Remark: SPQ is 1pc

Twin distributor, male connector M12 x 1
- 2 female connectors M12 x 1

	Designation	Order No.
5pole	M12-M05A-T-R120	163 005 401 4518



Y distributor

60V 4A

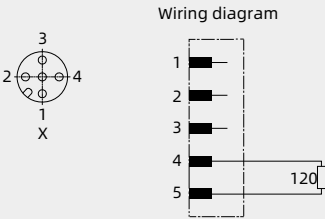
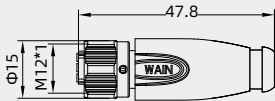
Technical characteristics

Number of contacts	5
Rated current (40°C)	4A
Rated voltage	60V
Rated impulse voltage	-
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screwM12*1
Termination	-
Wire gauge	-
Cable outlet	-
Degree of protection	IP67
Mechanical operation	> 100
Limiting temperature	-25°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	TPU

M12 Terminal resistance Remark: SPQ is 1pc

Twin distributor, male connector M12 x 1
- 2 female connectors M12 x 1

	Designation	Order No.
5pole	M12-F05A-T-R120	163 005 402 4512



Sensor junction box-M8

24V DC 2A/6A

Technical characteristics

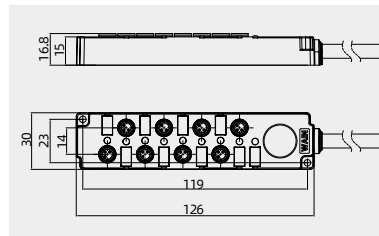
Number of contacts	3-pole
Rated current (40°C)	6A/2A
Rated voltage	24V~30V(max)
Rated impulse voltage	-
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 3 mΩ
Connector locking system	M8 x 1
Wire gauge	Pluggable 4-way:4*0.25+2*0.5; Pluggable 8-way:8*0.25+2*0.5; Pluggable 10-way:10*0.34+2*0.75
Degree of protection	IP67
Mechanical operation	> 100
Limiting temperature	-25°C ...+85°C
Material group	-
Material of contact	copper alloy
Contact plating	Au
Insulating material	PBT/PA
Material of housing	PA

Sensor junction box-M8 Remark: SPQ is 1pc

Pluggable 4-way interface box



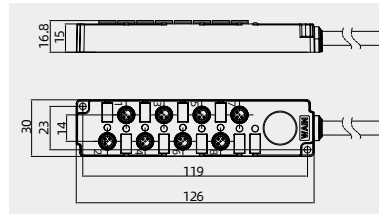
Cable length	Circuit	Designation	Order No.
3.0m	PNP single channel	SJB-M8-4F03-3.0-PUR	171 204 003 0003



Pluggable 8-way interface box



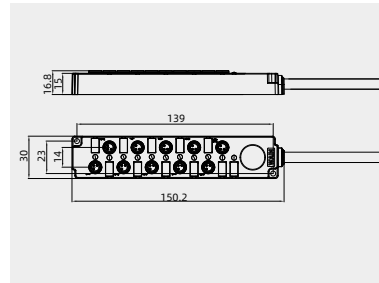
Cable length	Circuit	Designation	Order No.
3.0m	PNP single channel	SJB-M8-8F03-3.0-PUR	171 208 003 0003



Pluggable 10-way interface box



Cable length	Circuit	Designation	Order No.
1.5	NPN	SJB-M8-10F03-1.5-PUR-N	162 030 224 4500
5.0	NPN	SJB-M8-10F03-5.0-PUR-N	162 030 224 4501
1.5	PNP	SJB-M8-10F03-1.5-PUR	171 208 003 0012
5.0	PNP	SJB-M8-10F03-5.0-PUR	171 208 003 0013

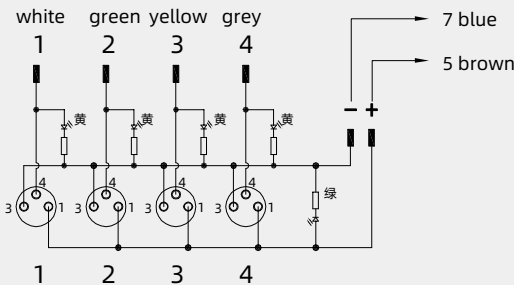
Sensor
junction
box

Sensor junction box-M8

• Sensor junction box-M8

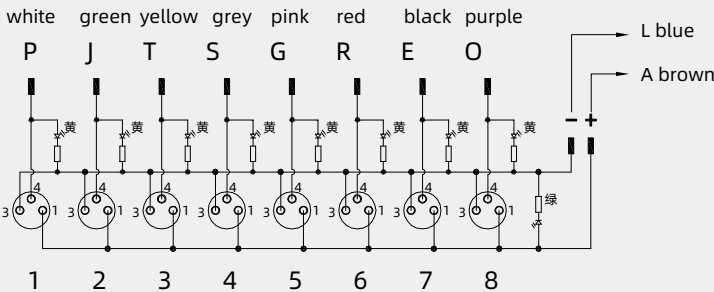
• M8 4-way interface box with wire

3



• M8 8-way interface box with wire

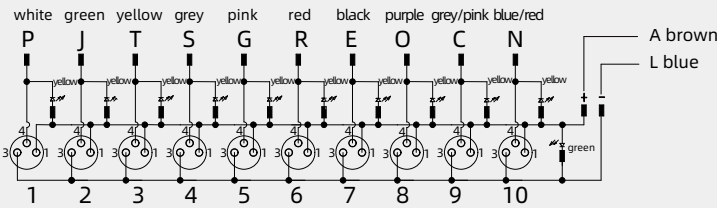
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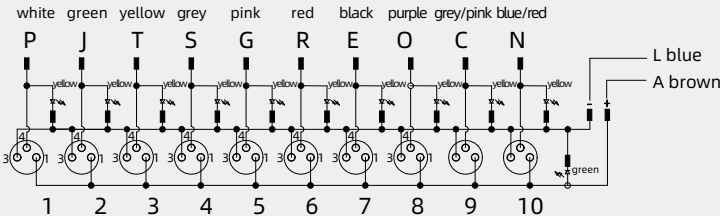
• M8 10-way interface box with wire

3

NPN



PNP



Sensor junction box-M12

10~30V DC 2A/9A

Technical characteristics

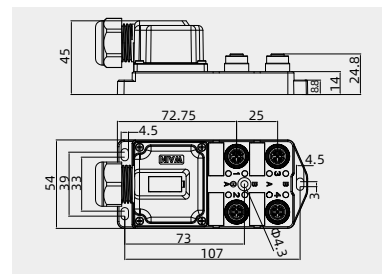
Number of contacts	4-pole	5-pole
Rated current (40°C)	9A/2A	9A/2A
Rated voltage	10-30V	10-30V
Rated impulse voltage	-	-
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	M12 x 1	M12 x 1
Wire gauge	0.34 mm ² (AWG 22)	3x0.75 mm ² (AWG 20)
Cable outlet	-	-
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-25°C ...+80°C	-25°C ...+80°C
Material group	-	-
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PBT/PA	PBT/PA
Material of housing	PA	PA

Sensor junction box-M12 Remark: SPQ is 1pc

Four-hole junction box without cable



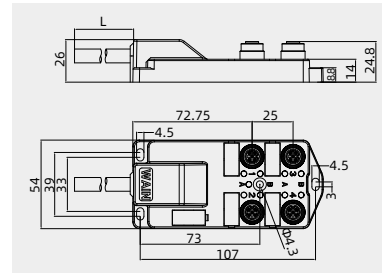
Cable outlet	Circuit	Designation	Order No.
6-8mm	PNP single channel	SJB-M12-4F04A-D8	171 304 004 0001
8-10mm	PNP single channel	SJB-M12-4F04A-D10.5	171 304 004 0002
10-12mm	PNP single channel	SJB-M12-4F04A-D12.5	171 304 004 0003
6-8mm	PNP double channel	SJB-M12-4F05A-D8	171 304 005 0001
8-10mm	PNP double channel	SJB-M12-4F05A-D10.5	171 304 005 0002
10-12mm	PNP double channel	SJB-M12-4F05A-D12.5	171 304 005 0003



Four-hole junction box with cable



Cable length	Circuit	Designation	Order No.
3.0m	PNP single channel	SJB-M12-4F04A-3.0-PUR	171 304 004 0004
3.0m	PNP single channel	SJB-M12-4F04A-3.0-PVC	171 304 004 0005
3.0m	PNP double channel	SJB-M12-4F05A-3.0-PUR	171 304 005 0004
3.0m	PNP double channel	SJB-M12-4F05A-3.0-PVC	171 304 005 0005

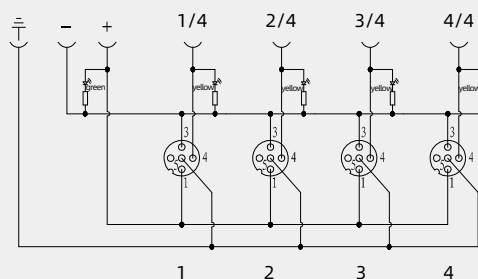


Sensor junction box-M12

- Sensor junction box-M12

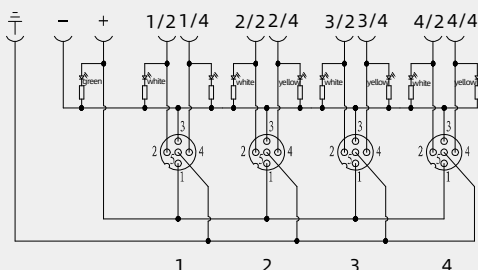
- M12 4-way interface box without wire

4



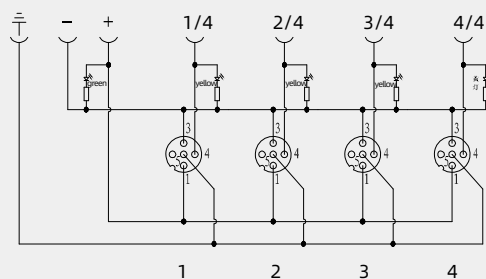
- M12 4-way interface box without wire

5



- M12 4-way interface box with wire

4

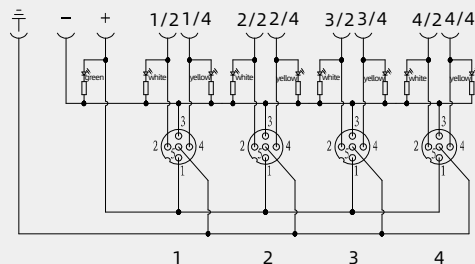


Colors of wires

1/4 - white (+)-brown
 2/4 - green (-)-blue
 3/4 - yellow (PE)-yellow/green
 4/4 - grey

- M12 4-way interface box with wire

5



Colors of wires

1/2 - grey/pink (+)-brown
 1/4 - white (-)-blue
 2/2 - red/blue (PE)-yellow/green
 2/4 - green
 3/2 - white/green
 3/4 - yellow
 4/2 - brown/green
 4/4 - grey

Sensor junction box-M12

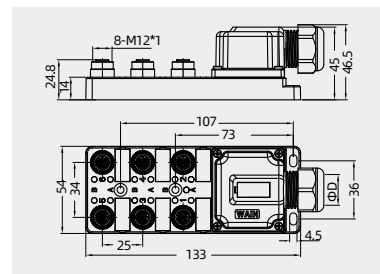
24~30V DC 2A/10A

Technical characteristics

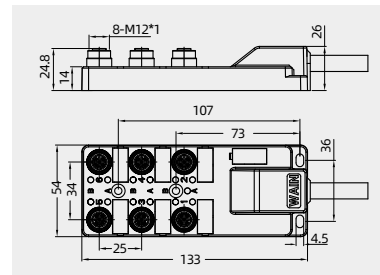
Number of contacts	4-pole	5-pole
Rated current (40°C)	总 :10A, 分线 2A	总 :10A, 分线 2A
Rated voltage	24-30V	24-30V
Rated impulse voltage	-	-
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	M12 x 1	M12 x 1
Wire gauge	0.34 mm ² (AWG 22),	3x0.75 mm ² (AWG 20)
Cable outlet	6-12mm	6-12mm
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-25°C ...+80°C	-25°C ...+80°C
Material group	-	-
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PBT/PA	PBT/PA
Material of housing	PA	PA

Sensor junction box-M12 Remark: SPQ is 1pc6-hole double channel junction box
without cable

Cable outlet	Circuit	Designation	Order No.
6-8mm	PNP single channel	SJB-M12-6F04A-D8	171 306 004 0001
8-10mm	PNP single channel	SJB-M12-6F04A-D10.5	171 306 004 0002
8-10mm	PNP double channel	SJB-M12-6F05A-D10.5	171 306 005 0001
10-12mm	PNP double channel	SJB-M12-6F05A-D12.5	171 306 005 0002

6-hole double channel junction box
with cable

Cable length	Circuit	Designation	Order No.
3.0m	PNP single channel	SJB-M12-6F04A-3.0-PUR	171 306 004 0003
3.0m	PNP single channel	SJB-M12-6F04A-3.0-PVC	171 306 004 0004
3.0m	PNP double channel	SJB-M12-6F05A-3.0-PUR	171 306 005 0003
3.0m	PNP double channel	SJB-M12-6F05A-3.0-PVC	171 306 005 0004

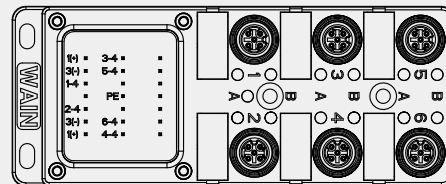
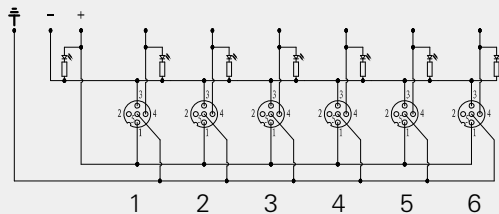


Sensor junction box-M12

- Sensor junction box-M12

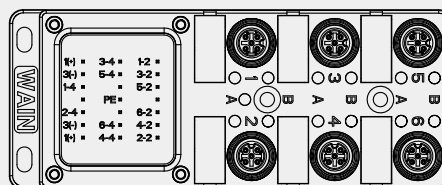
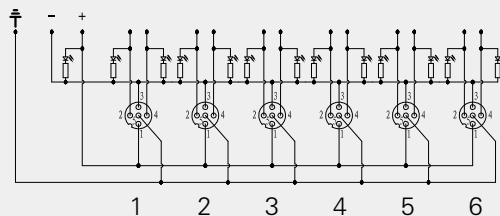
- M12 6-way interface box without wire

4



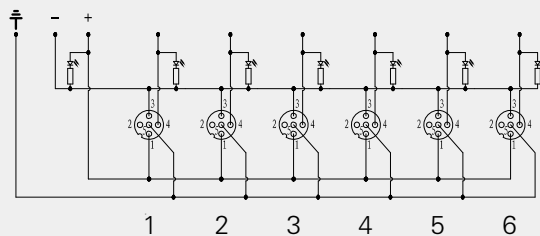
- M12 6-way interface box without wire

5



- M12 6-way interface box with wire

4

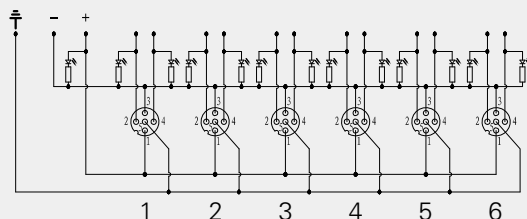


Colors of wires

1/4 – white	1(+)-brown
2/4 – green	1(-)-blue
3/4 – yellow	5(PE)-yellow/green
4/4 – grey	
5/4 – pink	
6/4 – red	

- M12 6-way interface box with wire

5



Colors of wires

1/2 – grey/pink	5/2 – white/yellow
1/4 – white	5/4 – pink
2/2 – red/blue	6/2 – yellow/brown
2/4 – green	6/4 – red
3/2 – white/green	1(+)-brown
3/4 – yellow	1(-)-blue
4/2 – brown/green	5(PE)-yellow/green
4/4 – grey	

Sensor junction box-M12

10~30V DC 2A/9A

Technical characteristics

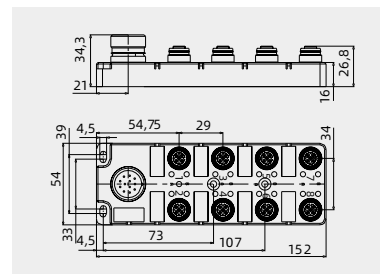
Number of contacts	4-pole	5-pole
Rated current (40°C)	9A/2A	9A/2A
Rated voltage	10-30V	10-30V
Rated impulse voltage	-	-
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	M12 x 1	M12 x 1
Wire gauge	8*0.34mm ² (AWG22)+3*0.75mm ² (AWG18)	16*0.34mm ² (AWG22)+3*0.75mm ² (AWG18)
Cable outlet	-	-
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-25°C ...+80°C	-25°C ...+80°C
Material group	-	-
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PBT/PA	PBT/PA
Material of housing	PA	PA

Sensor junction box-M12 Remark: SPQ is 1pc

Pluggable 8-way interface box with M23 connector 12/19 pol, equipment-on LED (green) and functional indicator (yellow) M12 Push-Pull-locking



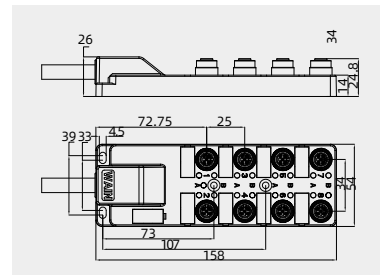
Cable outlet	Circuit	Designation	Order No.
M23-12pole	PNP single channel	SJB-M12-8F04-M23-12P	171 308 004 0601
M23-19pole	PNP double channel	SJB-M12-8F05A-M23-19P	171 308 005 0601



Junction box with wire



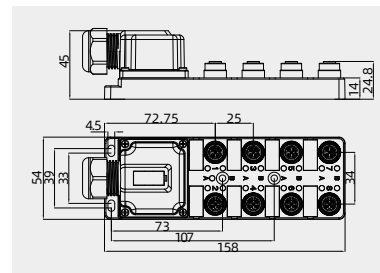
Cable length	Circuit	Designation	Order No.
3.0m	PNP single channel	SJB-M12-8F04A-3.0-PUR	171 308 004 0001
3.0m	PNP double channel	SJB-M12-8F05A-3.0-PUR	171 308 005 0002



Junction box without wire



Cable outlet	Circuit	Designation	Order No.
10-12mm	PNP single channel	SJB-M12-8F04A-D12.5	171 308 004 0002
10-12mm	PNP double channel	SJB-M12-8F05A-D12.5	171 308 005 0001

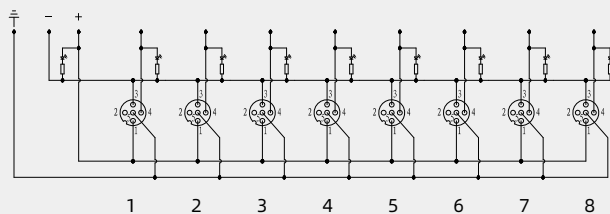


Sensor junction box-M12

- Sensor junction box-M12

- M12 8-way interface box with wire

4

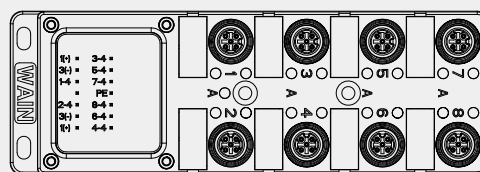
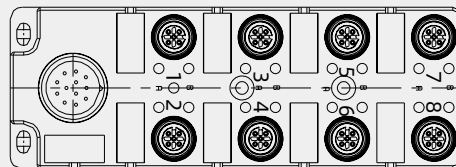
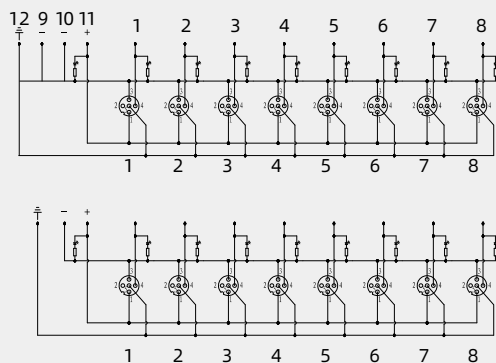


Colors of wires

1/4 - white	1(+)-brown
2/4 - green	1(-)-blue
3/4 - yellow	5(PE)-yellow/green
4/4 - grey	
5/4 - pink	
6/4 - red	
7/4 - black	
8/4 - purple	

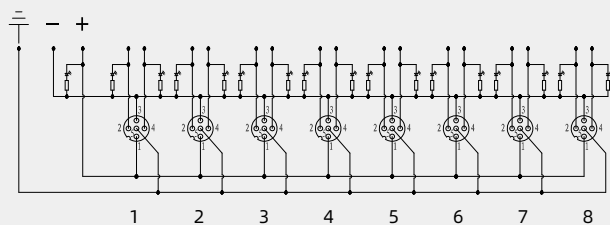
- M12 8-way interface box

4



- M12 8-way interface box with wire

5

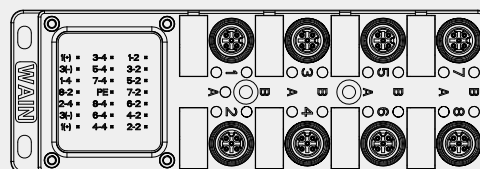
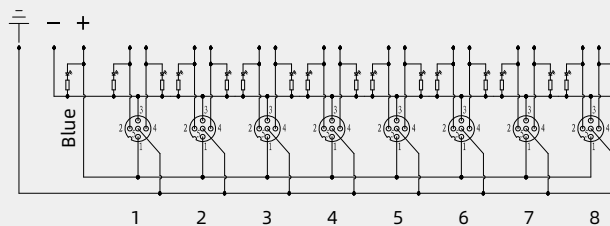


Colors of wires

1/2 - grey/pink	5/2 - white/yellow	1(+)-brown
1/4 - white	5/4 - pink	1(-)-brown
2/2 - red/blue	6/2 - yellow/brown	5(PE)-yellow/green
2/4 - green	6/4 - red	
3/2 - white/green	7/2 - white/grey	
3/4 - yellow	7/4 - black	
4/2 - blue/green	8/2 - grey/brown	
4/4 - grey	8/4 - purple	

- M12 8-way interface box

5





Sensor
junction
box