

Sockets

Electric Plug and Socket Connectors

For pressure switches, level switches, flow sensors, directional control valves and filters



Electric Plug and Socket Connectors

Electric plugs or sockets are required for the actuation of various models of hydraulic equipment used in the field of central lubrication technology and for the evaluation of switching signals.

Product overview

Overview coupler sockets

Order No.	Standard design / type	Application										Page
		Pressure switch	Flow sensor	Filter monitor	Lubricant level switch	Piston distributor	Oil-streak sensor	Flow monitor	Directional control valve	Cycle switch	Pumps (KFG)	
179-990-371 straight 179-990-372 angled	DIN EN61076-2-101 4-pole, M12x1	•	•	•	•	•	•	•		•		3
24-1882-2076 straight	DIN EN60947-5-2 DIN EN61076-2-101 5-pole, M12x1								•			3
179-990-381 straight 179-990-382 angled	DIN EN61076-2-101 3-pole, M12x1 (with integrally extruded line)	•	•	•	•	•	•	•		•		4
179-990-600 straight 179-990-601 angled 179-990-603 straight	IEC60228, DIN13802, DIN IEC60757, IEC60332-2 4-pole, M12x1 (with integrally extruded line)	•	•	•	•	•	•	•		•		5
179-990-033 179-990-147 179-990-657	DIN EN 175301-803- A/ ISO 4400	•	•	•	•							6
179-990-110+410 179-990-111+924	DIN EN 175301-803 -A/ ISO 4400							•				7
179-990-416	DIN EN 175301-803 -A/ ISO 4400 (with integrally extruded line)								•			8

Overview circular connectors and device adapters

Order No.	Standard design / type	Application										Page
		Pressure switch	Flow sensor	Filter monitor	Lubricant level switch	Piston distributor	Oil-streak sensor	Flow monitor	Directional control valve	Cycle switch	Pumps (KFG)	
179-990-663 straight 179-990-765 angled	DIN EN61076-2-101 4-pole, M12x1										•	9
179-990-458 179-990-461 179-990-776	DIN EN 175301-803 A/M12x1								•			10

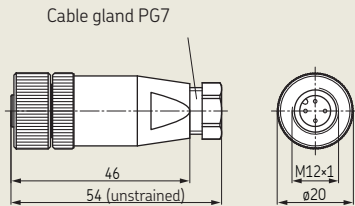
Circular plug M12×1 acc. to DIN EN61076-2-101

Socket contacts

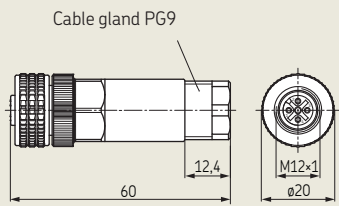
179-990-371 / 24-1882-2076



179-990-371



24-1882-2076



179-990-372



179-990-372

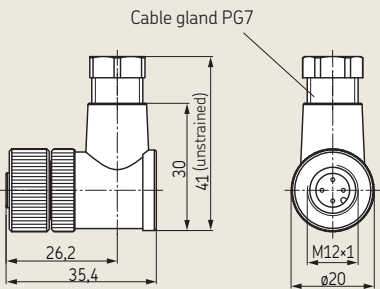
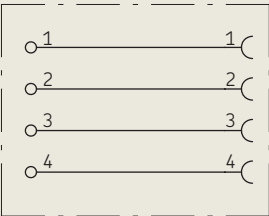


Figure 1

Circuit diagram



Technical data

Order No.	179-990-371 / 179-990-372	24-1882-2076
Pole	4	5
Conductor cross section max.	4x 0.75 mm ²	5x 0.75 mm ²
Line diameter	4 to 6 mm	6 to 8 mm
Max. rated operating voltage	250 V AC/DC	60 V AC/DC
Max. operating current	4 A	4 A
Housing material	PA, black	PA, black
Type of terminal	Screw terminal	Screw terminal
IP enclosure	IP 68 (installed)	IP 67 (installed)
Temperature range	-25 to +85 °C	-25 to +90 °C
Approval	UL	-
Color coding	→ Figure 1	→ Figure 2
Contact assignments	→ Figure 3	→ Figure 4

Figure 2

Circuit diagram

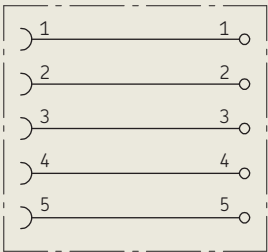


Figure 3

Contact assignments

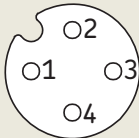
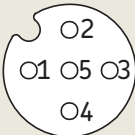


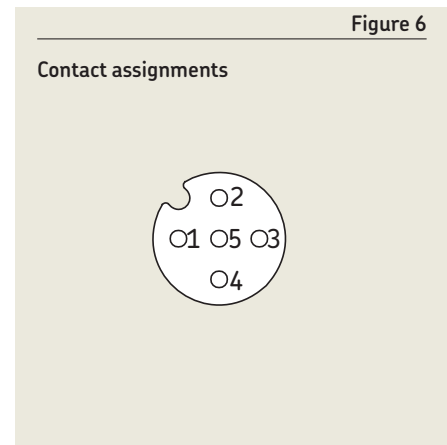
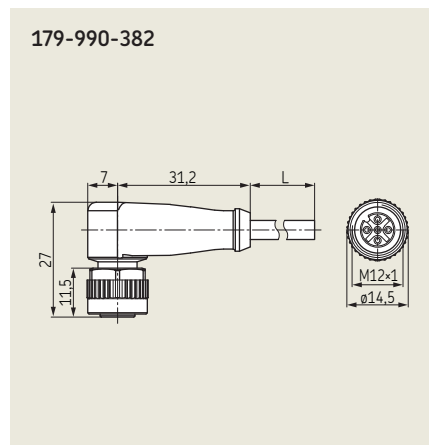
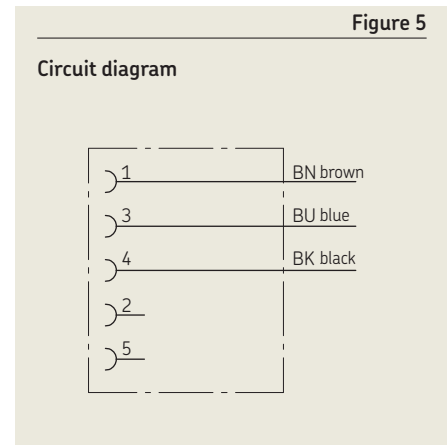
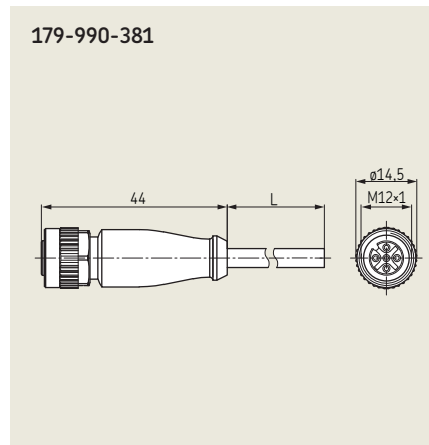
Figure 4

Contact assignments



Circular plug M12×1 acc. to DIN EN61076-2-101

with integrally extruded line, socket contacts



Technical data

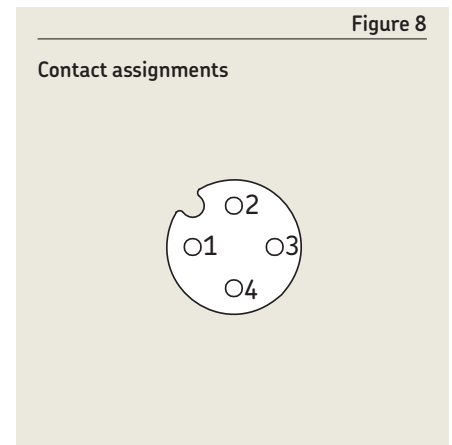
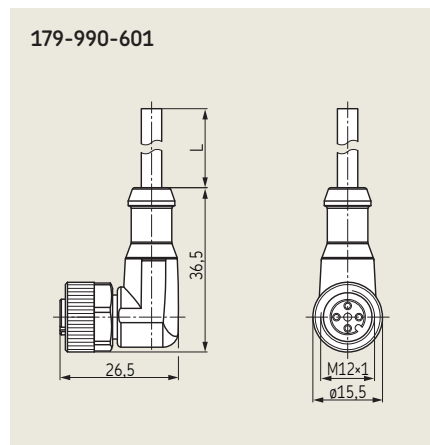
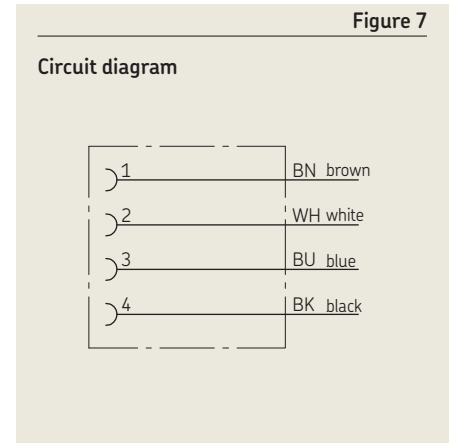
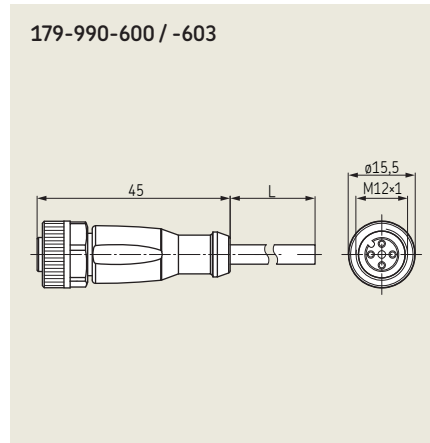
Order No. 179-990-381 / 179-990-382

Pole 3
 Conductor cross section max. 3x 0.34 mm²
 Line diameter /length 4.5 mm / 5 m
 Max. rated operating voltage 250 V AC/DC
 Max. operating current 4 A

Housing material PUR, black
 IP enclosure DIN60529 IP 68 (installed)
 Temperature range -50 to +90 °C
 Approval UL
 Color coding → Figure 5
 Contact assignments → Figure 6

Circular plug M12×1 acc. to IEC60228,

DIN13802, DIN IEC60757, IEC60332-2; with integrally extruded line, socket contacts



Technical data

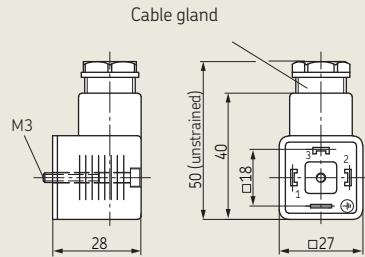
Order No.	179-990-600	179-990-603	179-990-601
Pole	4	4	4
Conductor cross section max.	4x 0.34 mm ²	4x 0.34 mm ²	4x 0.34 mm ²
Line diameter / length	4.9 mm / 5 m	4.9 mm / 10 m	4.9 mm / 5 m
Max. rated operating voltage	250 V AC/300 V DC	250 V AC/300 V DC	250 V AC/300 V DC
Max. operating current	4 A	4 A	4 A
Housing material	TPU, orange	TPU, orange	TPU, orange
Line material	PUR, black	PUR, black	PUR, black
IP enclosure DIN60529	IP 68 (installed)	IP 68 (installed)	IP 68 (installed)
Temperature range	-25 to +90 °C	-25 to +90 °C	-25 to +90 °C
Approval	UL	UL	UL
Color coding	→ Figure 7	→ Figure 7	→ Figure 7
Contact assignments	→ Figure 8	→ Figure 8	→ Figure 8

Rectangular connectors acc. to DIN EN175301-803-A

Form A, socket contacts, supplied with flat packing and fixing screw



179-990-033 / -147



179-990-657

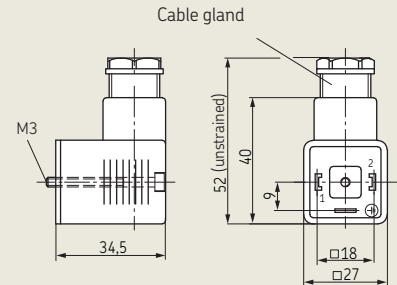


Figure 9

Circuit diagram

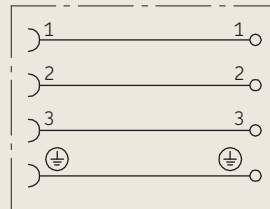
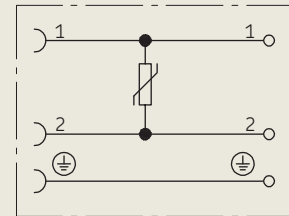


Figure 10

Circuit diagram



Technical data

Order No.

Version
Pole
Conductor cross section max.
Line diameter
Cable gland
Max. rated operating voltage
Max. operating current

Housing material
Seal
Type of terminal
IP enclosure DIN60529
Temperature range
Approval
Color coding

179-990-033

Insert rotatable 4x 90°
3+PE
4x 1.5 mm²
6 to 10 mm
M16x1.5
250 VAC/DC
10 A

PA, black
attached, NBR
Screw terminal
IP 65 (installed)
-40 to +100 °C
UL/CSA/ESTI+
→ Figure 9

179-990-147

Insert rotatable 4x 90°
3+PE
4x 1.5 mm²
6 to 8 mm
PG9
250 VAC/DC
10 A

PA, black
attached, NBR
Screw terminal
IP 65 (installed)
-30 to +120 °C
UL/CSA/ESTI+
→ Figure 9

179-990-657

Insert rotatable 4x 90°
2+PE
3x 1.5 mm²
6 to 9 mm
PG11
120 VAC/DC
10 A

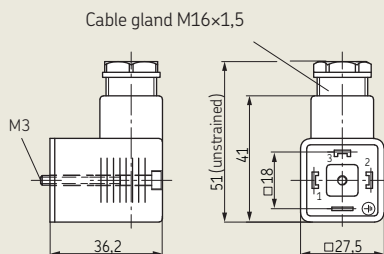
PA, black
attached, Silikon
Screw terminal
IP 65 (installed)
-40 to +80 °C
-
→ Figure 10

Rectangular connectors acc. to DIN EN175301-803-A

Form A, socket contacts, supplied with fixing screw



179-990-110+410



179-990-111+924

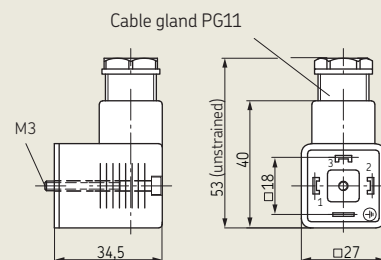


Figure 11

Circuit diagram

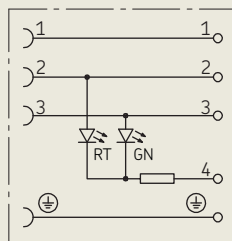
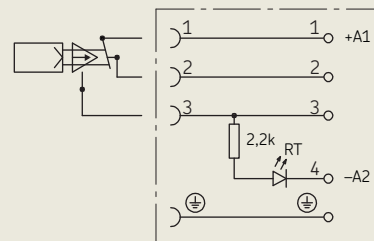


Figure 12

Circuit diagram



Technical data

Order No.

179-990-110+410

179-990-111+924

Version

Insert rotatable 4x 90°

Insert rotatable 4x 90°

Pole

3+PE

3+PE

Conductor cross section max.

4x 1.5 mm²

4x 1.5 mm²

Line diameter

4,5 to 10 mm

8 to 10 mm

Max. rated operating voltage

250 V DC

24 V DC

Max. operating current

8 A

10 A

Operating display

LED red / green, each <5 mA

LED red, <20 mA

Housing material

PA 6 GF, transparent/black

PA, transparent

Seal

NBR

attached, NBR

Type of terminal

Screw terminal

Screw terminal

IP enclosure DIN60529

IP 65 (installed)

IP 65 (installed)

Temperature range

-40 to +90 °C

-25 to +85 °C

Approval

UL

-

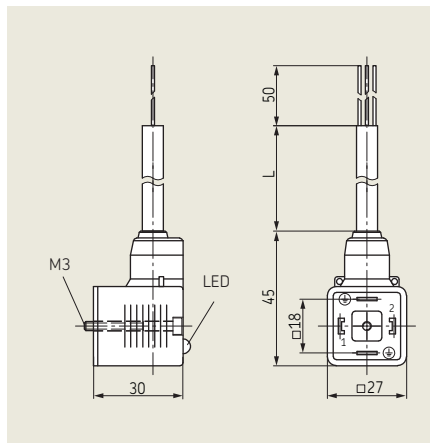
Color coding

→ Figure 11

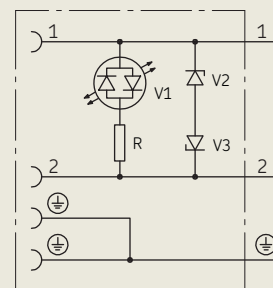
→ Figure 12

Rectangular connectors acc. to DIN EN175301-803-A

Form A, socket contacts, supplied with flat packing and fixing screw



Circuit diagram



Technical data

Order No.

179-990-416

Pole
Conductor cross section max.
Line diameter /length
Rated voltage
Max. rated operating voltage
Max. operating current

2+PE
3x 0.75 mm²
5.9 mm / 3 m
24 VAC/DC
30 VAC/DC
4 A

Operating display
Housing material
Seal
Type of terminal
IP enclosure DIN60529
Temperature range

LED yellow, <12 mA
PBT, black
permanently connected, TPU
Screw terminal
IP 67 (installed)
-25 to +85 °C

Circular plug M12×1 acc. to DIN EN61076-2-101

Plug contacts

179-990-663



179-990-663

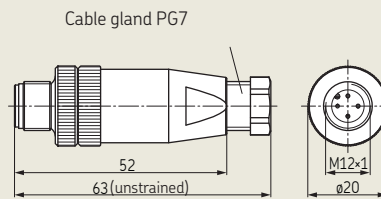


Figure 13

Circuit diagram



179-990-765



179-990-765

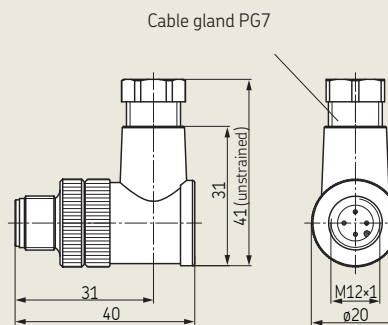
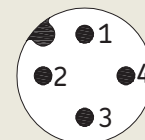


Figure 14

Contact assignments



Technical data

Order No.

179-990-663 / 179-990-765

Pole
Conductor cross section max.
Line diameter
Max. rated operating voltage
Max. operating current

4
4x 0.75 mm²
4 to 6 mm
250 VAC/DC
4 A

Housing material
Seal
Type of terminal
IP enclosure DIN60529
Temperature range
Approval
Color coding
Contact assignments

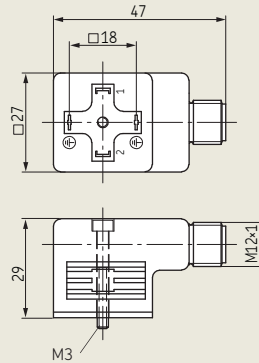
PA, black
FPM
Screw terminal
IP 68 (installed)
-25 to +85 °C
UL
→ Figure 13
→ Figure 14

Adapter plug acc. to DIN EN175301-803-A / M12x1

Form A, supplied with flat packing and fixing screw



179-990-458



179-990-461 / -776

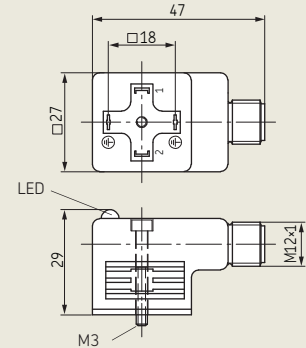


Figure 15

Circuit diagram

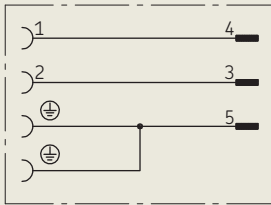


Figure 16

Circuit diagram

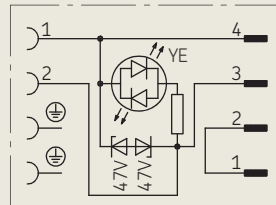
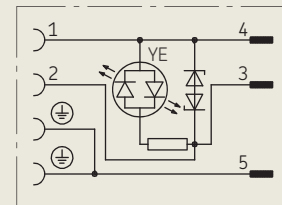


Figure 17

Circuit diagram



Technical data

Order No.

Pole

Rated voltage

Max. rated operating voltage

Max. operating current

Operating display

Housing material

Seal

IP enclosure DIN60529

Temperature range

Approval

Color coding

Contact assignments

179-990-458

2+PE (coupler socket)
2+PE (M12x1 plug)

110 V AC/DC

4 A

–

PBT, black

TPU, permanently connected

IP 67 (installed)

–25 to +85 °C

CSA

→ Figure 15

→ Figure 18

179-990-461

2 (coupler socket)
4 (M12x1 plug)

24 V AC/DC

4 A

LED yellow, <15 mA

PBT, black

TPU, attached

IP 65 (installed)

–25 to +90 °C

–

→ Figure 16

→ Figure 19

179-990-776

2+PE (coupler socket)
2+PE (M12x1 plug)

24 V AC/DC

28.8 V AC / 30 V DC

4 A

LED yellow, <12 mA

PBT, black

TPU, permanently connected

IP 67 (installed)

–25 to +90 °C

CSA

→ Figure 17

→ Figure 18

Figure 18

Contact assignments

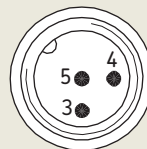
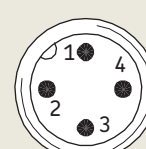


Figure 19

Contact assignments



**Important information on product usage**

SKF and Lincoln lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1 013 mbar) by more than 0,5 bar at their maximum permissible temperature.



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