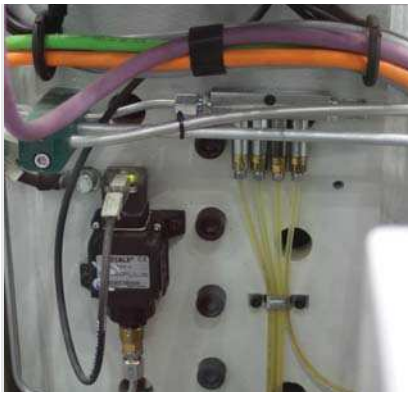
Sockets

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: Pressure switch	Flow sensor	Filter monitor	Lubricant level switch	Piston distributor	Oil-streak sensor	Flow monitor	Directional control valve	Cycle switch	Pumps (KFG)	Page
179-990-371 straight **179-990-372 angled**	DIN EN61076-2-101 4-pole, M12×1	• •	• •	• •	• •	• •	• •	• •		• •		3
24-1882-2076 straight	DIN EN60947-5-2 DIN EN61076-2-101 5-pole, M12×1								•			3
179-990-381 straight **179-990-382 angled**	DIN EN61076-2-101 3-pole, M12×1 (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, M12×1 (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

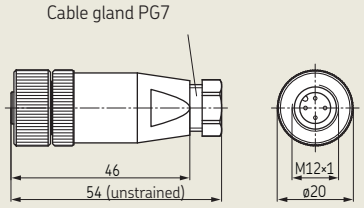
Order No.	Standard design / type	Application: Pressure switch	Flow sensor	Filter monitor	Lubricant level switch	Piston distributor	Oil-streak sensor	Flow monitor	Directional control valve	Cycle switch	Pumps (KFG)	Page
179-990-663 straight **179-990-765 angled**	DIN EN61076-2-101 4-pole, M12×1										• •	9
179-990-458 **179-990-461** **179-990-776**	DIN EN 175301-803 A/M12×1								•			10

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

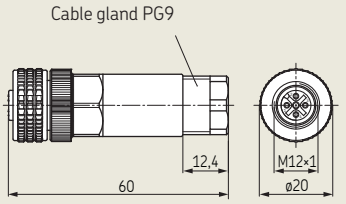
Socket contacts

179-990-371 / 24-1882-2076

179-990-371



24-1882-2076



179-990-372

179-990-372

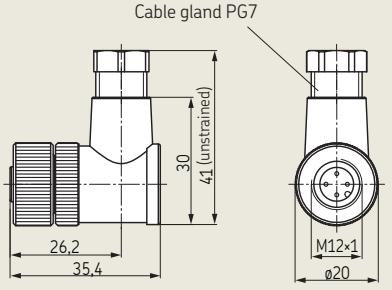
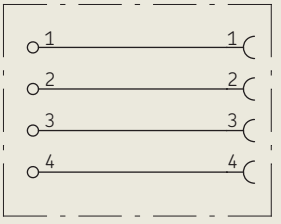


Figure 1

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 mm²	5x 0.75 mm²
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 DIN60529	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

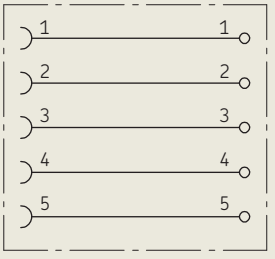


Figure 3

Contact assignments

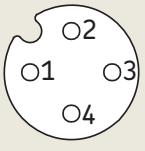


Figure 4

Contact assignments

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

with integrally extruded line, socket contacts

179-990-381

179-990-381

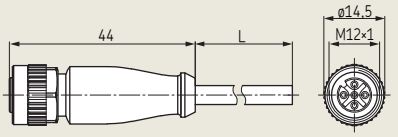
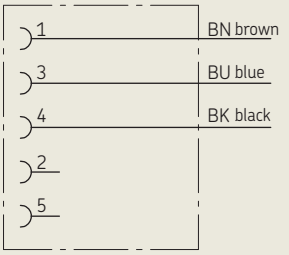


Figure 5

Circuit diagram



179-990-382

179-990-382

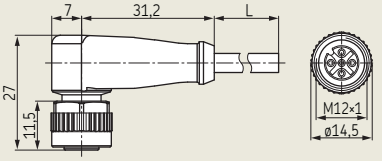
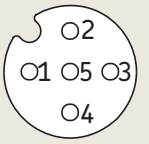


Figure 6

Contact assignments



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

179-990-600 / -603

179-990-600 / -603

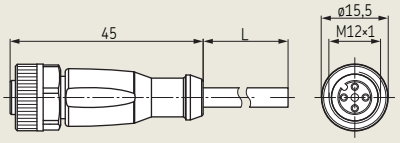
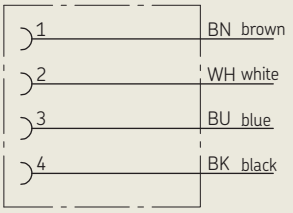


Figure 7

Circuit diagram



179-990-601

179-990-601

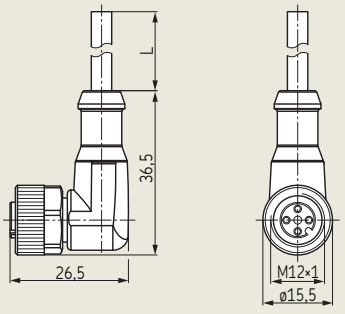
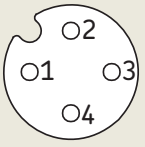


Figure 8

Contact assignments



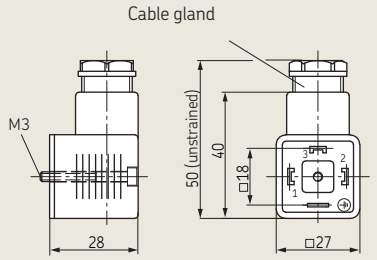
Technical data

Order No.	**179-990-600**	**179-990-603**	**179-990-601**
Pole	4	4	4
Conductor cross section max.	4x 0.34 mm²	4x 0.34 mm²	4x 0.34 mm²
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

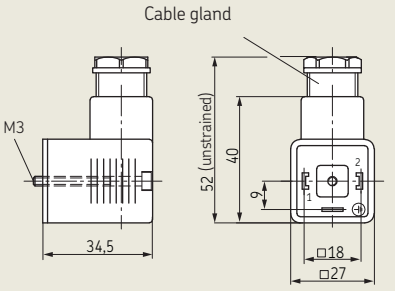


Figure 9

Circuit diagram

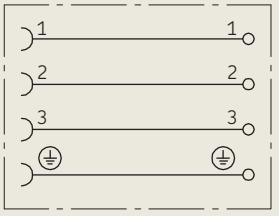
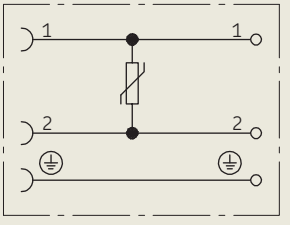


Figure 10

Circuit diagram



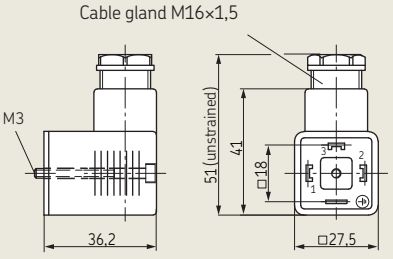
Technical data

Order No.	**179-990-033**	**179-990-147**	**179-990-657**
Version	Insert rotatable 4x 90°	Insert rotatable 4x 90°	Insert rotatable 4x 90°
Pole	3+PE	3+PE	2+PE
Conductor cross section max.	4x 1.5 mm²	4x 1.5 mm²	3x 1.5 mm²
Line diameter	6 to 10 mm	6 to 8 mm	6 to 9 mm
Cable gland	M16×1.5	PG9	PG11
Max. rated operating voltage	250 V AC/DC	250 V AC/DC	120 V AC/DC
Max. operating current	10 A	10 A	10 A
Housing material	PA, black	PA, black	PA, black
Seal	attached, NBR	attached, NBR	attached, Silikon
Type of terminal	Screw terminal	Screw terminal	Screw terminal
IP enclosure DIN60529	IP 65 (installed)	IP 65 (installed)	IP 65 (installed)
Temperature range	–40 to +100 °C	–30 to +120 °C	–40 to +80 °C
Approval	UL/CSA/ESTI+	UL/CSA/ESTI+	–
Color coding	→ Figure 9	→ Figure 9	→ 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

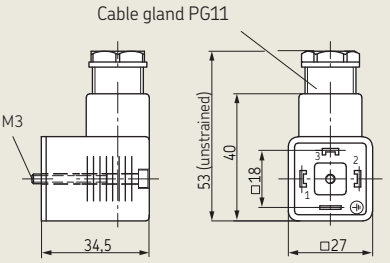


Figure 11

Circuit diagram

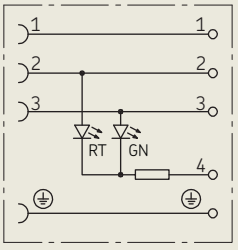
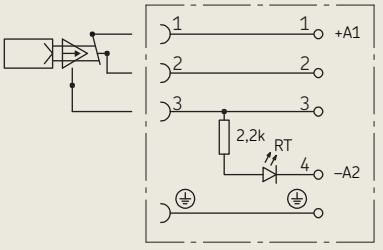


Figure 12

Circuit diagram

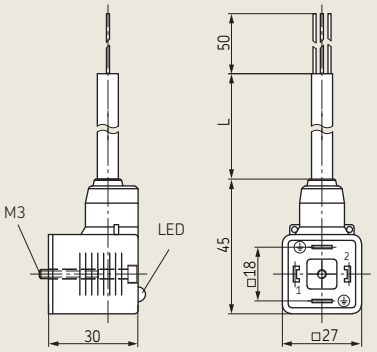


Technical data

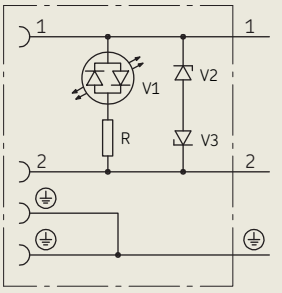
Order No.	**179-990-110+410**	**179-990-111+924**
Version	Insert rotatable 4x 90°	Insert rotatable 4x 90°
Pole	3+PE	3+PE
Conductor cross section max.	4x 1.5 mm²	4x 1.5 mm²
Line diameter	4,5 to 10 mm	8 to 10 mm
Max. rated operating voltage	250 V DC	24 V DC
Max. operating current	8 A	10 A
Operating display	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	2+PE
Conductor cross section max.	3x 0.75 mm²
Line diameter /length	5.9 mm / 3 m
Rated voltage	24 V AC/DC
Max. rated operating voltage	30 V AC/DC
Max. operating current	4 A
Operating display	LED yellow, <12 mA
Housing material	PBT, black
Seal	permanently connected, TPU
Type of terminal	Screw terminal
IP enclosure DIN60529	IP 67 (installed)
Temperature range	–25 to +85 °C

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

Plug contacts

179-990-663

179-990-663

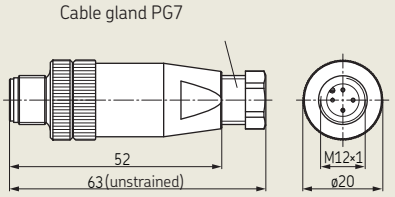
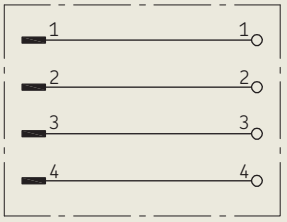


Figure 13

Circuit diagram



179-990-765

179-990-765

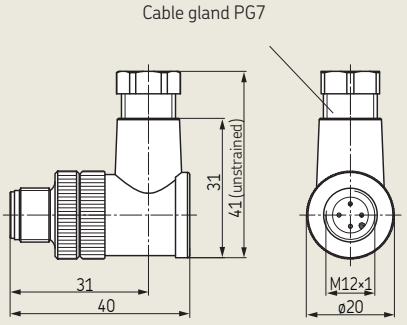
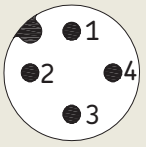


Figure 14

Contact assignments



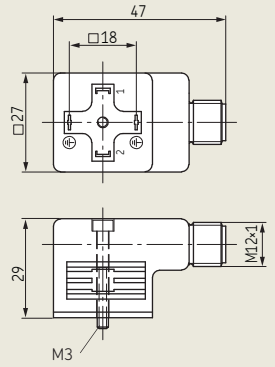
Technical data

Order No.	**179-990-663 / 179-990-765**
Pole	4
Conductor cross section max.	4x 0.75 mm²
Line diameter	4 to 6 mm
Max. rated operating voltage	250 V AC/DC
Max. operating current	4 A
Housing material	PA, black
Seal	FPM
Type of terminal	Screw terminal
IP enclosure DIN60529	IP 68 (installed)
Temperature range	–25 to +85 °C
Approval	UL
Color coding	→ Figure 13
Contact assignments	→ Figure 14

Adapter plug acc. to DIN EN175301-803-A / M12×1

Form A, supplied with flat packing and fixing screw

179-990-458



179-990-461 /-776

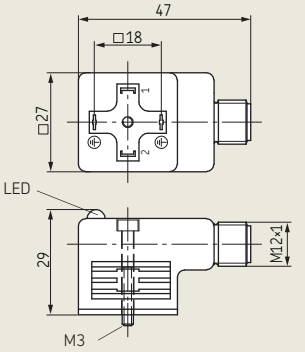


Figure 15

Circuit diagram

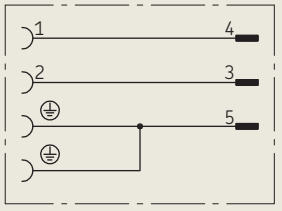


Figure 16

Circuit diagram

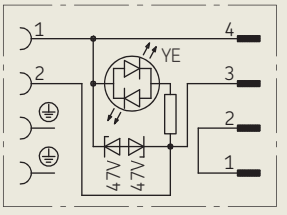
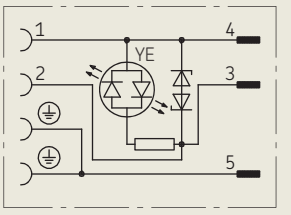


Figure 17

Circuit diagram



Technical data

Order No.	179-990-458	179-990-461	179-990-776
Pole	2+PE (coupler socket) 2+PE (M12×1 plug)	2 (coupler socket) 4 (M12×1 plug)	2+PE (coupler socket) 2+PE (M12×1 plug)
Rated voltage	–	–	24 V AC/DC
Max. rated operating voltage	110 V AC/DC	24 V AC/DC	28.8 V AC / 30 V DC
Max. operating current	4 A	4 A	4 A
Operating display	–	LED yellow, <15 mA	LED yellow, <12 mA
Housing material	PBT, black	PBT, black	PBT, black
Seal	TPU, permanently connected	TPU, attached	TPU, permanently connected
IP enclosure DIN60529	IP 67 (installed)	IP 65 (installed)	IP 67 (installed)
Temperature range	–25 to +85 °C	–25 to +90 °C	–25 to +90 °C
Approval	CSA	–	CSA
Color coding	→ Figure 15	→ Figure 16	→ Figure 17
Contact assignments	→ Figure 18	→ Figure 19	→ Figure 18

Figure 18

Contact assignments

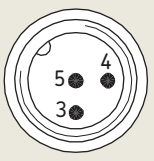


Figure 19

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.

skf.com | skf.com/lubrication

PUB LS/P2 17095 EN · **1-1730-DE** · January 2017