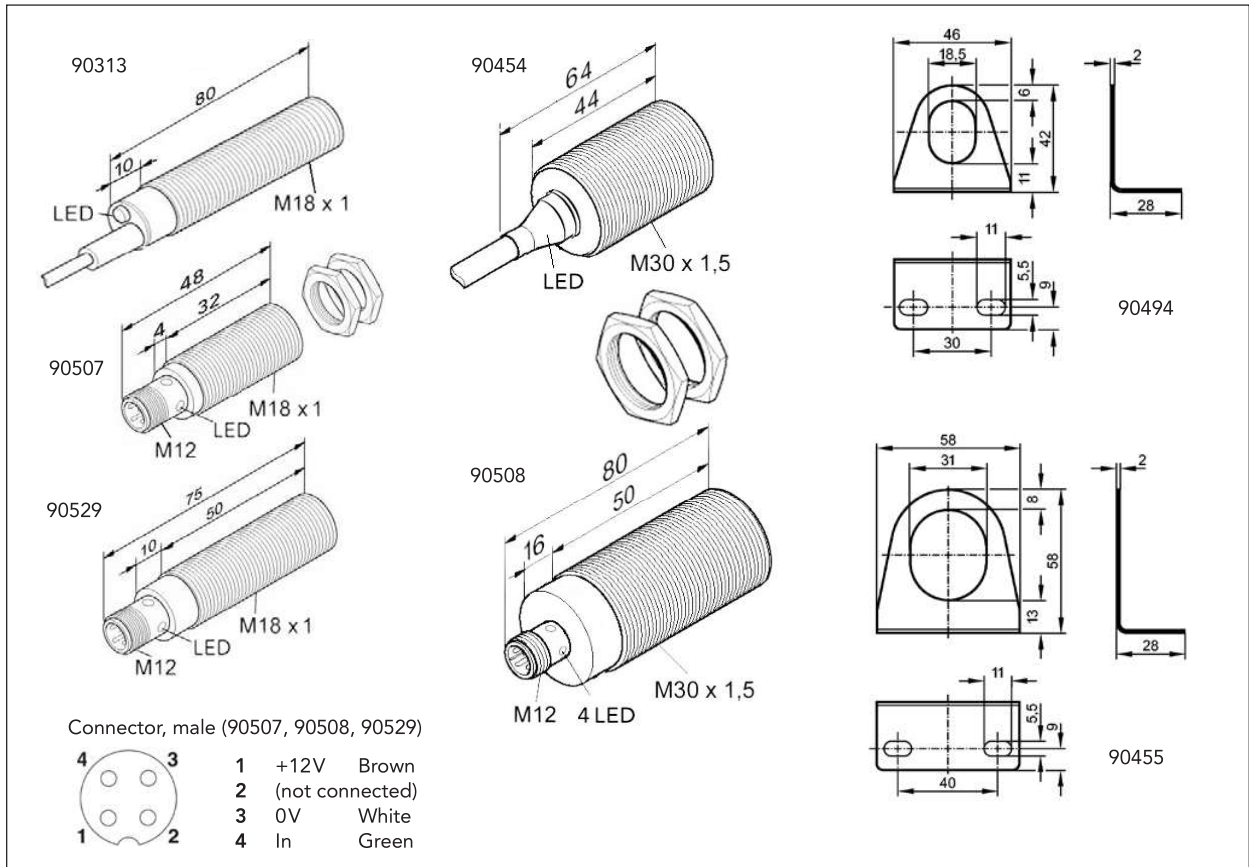


Inductive Proximity Switches



The inductive proximity switches have integrated amplifiers and LED indicators for easy operation and adjustment. They are available with integrated cable 2m or with connector.

The angle brackets 90455 and 90456 are made of galvanized steel. Cables, connectors and accessories for inductive proximity switches are described on TD-384.

Technical specifications

Housing material:	nickel plated brass
Material active face:	PBT
Switching distance, S _n	
90313, 90507, 90529:	8 mm, shielded
90454:	15 mm, shielded
90508:	22 mm, shielded
Switching frequency	
90313, 90507, 90529:	500 Hz
90454:	250 Hz
90508:	300 Hz
Switching hysteresis:	<15% (Sr)
Operating temperature:	-25 °C to +70 °C
Protection category:	IP 67
Function control:	LED
Operating voltage:	10 to 30 V DC
Ripple:	< 10%
Voltage drop	
90507:	< 2.0 V
90313, 90508:	< 1.5 V
90454, 90529:	< 2.5 V

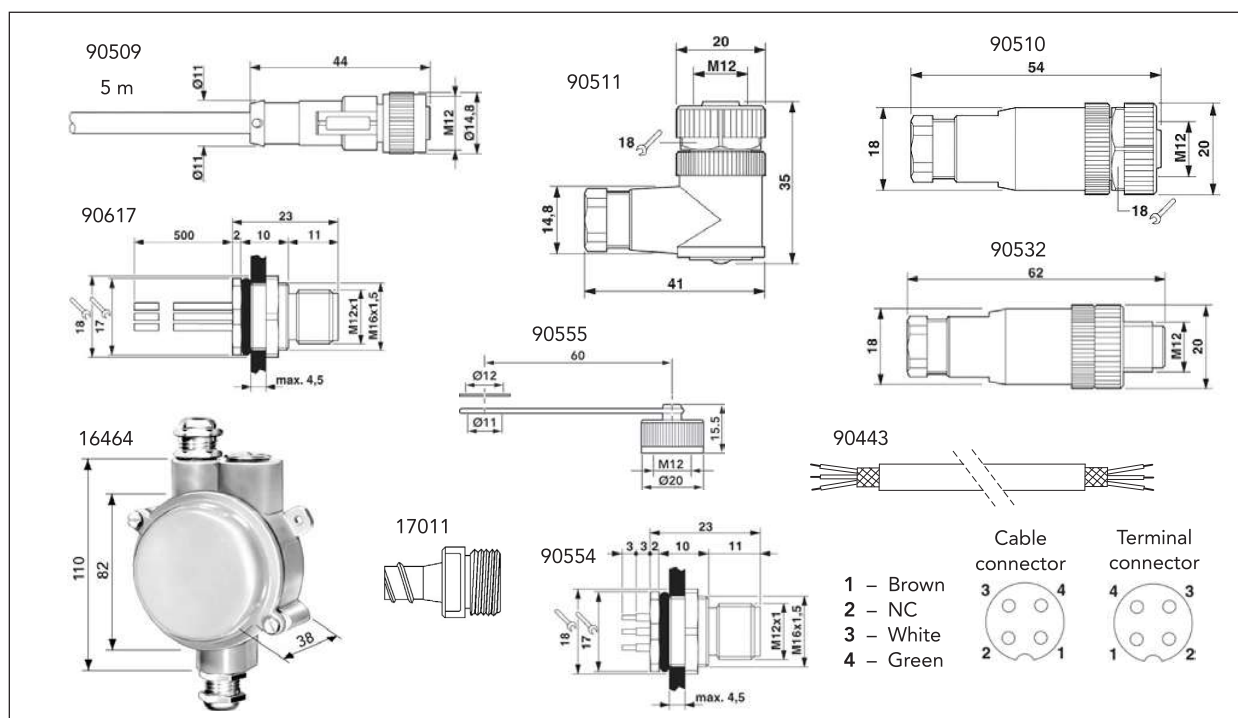
Max. load current:	max. 200 mA
Leakage current:	<0,01 mA
No load current:	< 15 mA
Output function:	NPN, N.O.
Connection:	plug M12 alt. integrated cable, PVC, 2 m 90313; 3 x 0.34 mm ² 90454; 3 x 0.5 mm ²

Part numbers

90313	Inductive Proximity Switch M18 with integrated cable 2m without connector
90454	Inductive Proximity Switch M30 with integrated cable 2m without connector
90507	Inductive Proximity Switch M18 with connector
90529	Inductive Proximity Switch M18 with connector
90508	Inductive Proximity Switch M30 with connector
90494	Angle bracket M18
90455	Angle bracket M30



Accessories for inductive proximity switches



90509 is a PUR halogen-free sensor cable with a straight M12 connector intended for use with the inductive proximity switches 90507 and 90508.

Rated voltage: 250 V
 Rated current at 40°C: 4 A
 Insulation resistance, connector: $\geq 100 \text{ M}\Omega$
 Conductors: 4 x 0.34 mm², AWG 22
 Cable diameter: 4.7 mm
 Insulation resistance, cable: $\geq 1 \text{ G}\Omega/\text{km}$
 Conductor resistance: max. 58 Ω/km (at 20°C)
 Nom. voltage, conductor: $\leq 300 \text{ V}$
 Length of cable: 5 m
 Ambient temperature: -25 to +80 °C
 Degree of protection: IP68

90510 (straight) and **90511** (angled) are 4-position female connectors for the inductive proximity switches 90507 and 90508. They are A-coded and have screw connection Pg7.

Rated current at 40°C: 4 A
 Rated voltage: 250 V
 Insulation resistance: $\geq 100 \text{ M}\Omega$
 Ambient temperature: -40 to +85°C
 Degree of protection: IP67
 External cable diameter: 4 to 6 mm

90532 is a straight 4-position male connector with the same specifications as the connectors 90510 and 90511.

90554 is a 4-position terminal connector for rear/screw mounting with M16 thread, with straight solder connection.

90617 is a 4-position terminal connector for rear/screw mounting with M16 thread, with 0.5 m TPE litz wire, 4 x 0.34 mm².

90443 is a PUR cable with 3 conductors and shield. It has a wide temperature range and good resistance to mineral oils.

Ambient temperature: -40 to +80°C
 Conductors: 0.25 mm², AWG 23
 Rated voltage: 250 V
 Test voltage: 1500 V
 Diameter: 4.7 mm
 Bend radius: min. 71 mm

16464 is a junction box produced in gray alloy and has three cable inlets. It is supplied with terminal block with 4 mantle clamps, grounding screw and 3 cable inlets with thread Pg18.6 plus 2 cable inlets of type Pg11 and 1 blind plug.

Terminal wire range: up to 3 x 2.5 mm²
 Rated voltage: 500 V
 Inner depth: 23 mm
 Inner diameter: 76 mm
 Degree of protection: IP67
 Cable diameter, Pg18.6: 8 to 12 mm
 Cable diameter, Pg11: 3 to 8.5 mm

Part numbers

90509 Sensor cable, 5 m, with connector M12
 90510 Connector M12 straight, female, IP67
 90511 Connector M12 angled, female, IP67
 90532 Connector M12 straight, male, IP67
 90554 Terminal connector M12, IP67
 90555 Sealing cap for 90554 made of plastic with fixing band with 12 mm fastening eye
 90443 Cable PUR, -40 to +80 °C
 90617 Terminal connector M12, IP67, with 0.5 m litz wire
 16464 Junction box, IP67
 17011 Protection tube end for 90510/90511/90532

Inductive proximity switches are described in TD-383.

