SCHMERSAL

EN Operating instructions. . . . . page 1
Original

Product description

Inductive proximity switches are sensors that are capable of detecting metal objects without coming into contact with these. When an object is detected, a signal change is returned at the output.

Technical information can be found in the Schmersal catalogues or in the online catalogue on the Internet: www.schmersal.net.

Selection and installation of the switchgear as well as its inclusion in a control system require that the plant manufacturer have qualified knowledge of the relevant legislation and normative requirements.

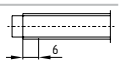
Assembly and the electrical connection may only be carried out by authorised personnel in a de-energised state.
The user must observe the country-specific installation standards as well as all prevailing safety regulations and accident prevention rules.

Warning about misuse
In case of inadequate or improper use or manipulations of the component, personal hazards or damage to machinery or plant components cannot be excluded.

The information contained in this operating instructions manual is provided without liability and is subject to technical modifications.

Mounting

Permissible tightening torques for proximity switches with thread

Thread design	Wrench size	Max. tightening torque	Limitation at core coil area	
M8 x 1	A/F 13	600 Ncm brass	0 Ncm	
		1000 Ncm stainless steel	0 Ncm	
M12 x 1	A/F 17	1500 Ncm metal	500 Ncm	
		90 Ncm plastic	–	
M18 x 1	A/F 24	1800 Ncm metal	–	
		300 Ncm plastic	–	
M30 x 1.5	A/F 36	3000 Ncm metal	–	
		400 Ncm plastic	–	

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Electrical connection

The electrical connection may only be carried out by authorised personnel in a de-energised condition.

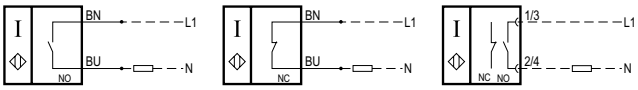
Proximity switch with wiring compartment
Programmable 10/01 by repositioning the plug-in jumper at the terminal screws



Contacts

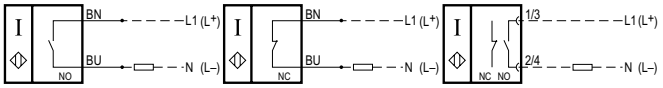
2-wire AC

IFL …-10 / IFL …-01 / IFL …-10/01



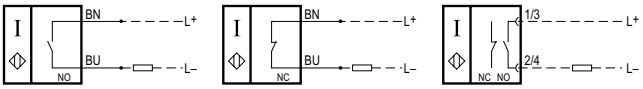
2-wire AC/DC

IFL …-10 / IFL …-01 / IFL …-10/01



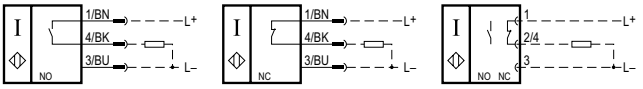
2-wire DC

IFL …-10D / IFL …-01D / IFL …-10/01D

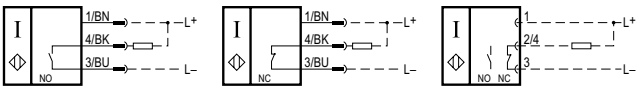


3-wire DC

IFL …-10STP / IFL …-10P / IFL …-01STP / IFL …-01P / IFL …-10/01P

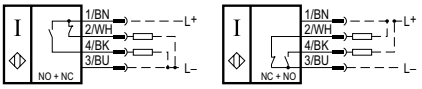


IFL …-10STN / IFL …-10N / IFL …-01STN / IFL …-01N / IFL …-10/01N



4-wire DC

IFL …-11STP / IFL …-11P / IFL …-11STN / IFL …-11N



Maintenance, disassembly and disposal

We recommend carrying out a visual inspection and functional test at regular intervals.

Damaged or defective components must be replaced.

The switchgear may only be removed when de-energised, professionally and in accordance with national rules and regulations.

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