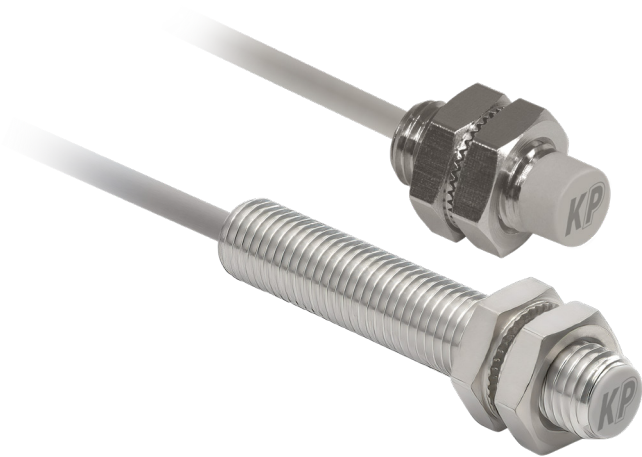


# Inductive proximity sensors (switches) of KIPPRIBOR LA series



The inductive proximity switch of the LA08 series is a cylindrical sensor designed to detect the presence of metallic objects within its sensing range (steel, stainless steel, cast iron, copper, aluminum, brass).

The inductive switches of the LA08 series react only to metal objects, eliminating false triggers when monitoring the end and intermediate positions of various metal mechanical components.

## The advantages of KIPPRIBOR LA08 series inductive sensors

- High reliability and long service life while maintaining performance characteristics;
- LED indication for sensor operation monitoring;
- Mounting kit included;
- High switching frequency;
- Low power consumption;
- Non-contact object monitoring

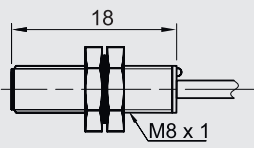
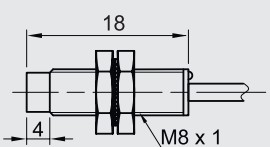
## Technical data of KIPPRIBOR LA08 series sensors

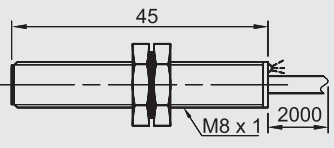
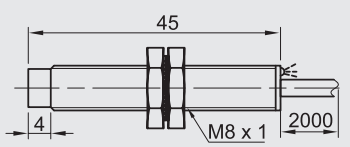
Parameter	Value
Supply voltage	10...30 VDC
Rated load current	≤ 200 mA
Minimum load current	-
Leakage current	≤ 0,01 mA
Voltage drop	1.5 W
Overload protection	Yes
Overload protection trip point	220 mA
Reverse polarity protection	Yes
Short-circuit protection	Yes
Switching hysteresis	≤ 15 % $S_{r(1)}$
Repeat accuracy	≤ 1 % $S_{r(1)}$
Status indication	LED
Housing material	Nickel plated brass/ Stainless steel <sup>2</sup>
Sensing face material	PBT
Operating temperature	-25...+70 °C
Temperature drift	≤ 10 % $S_{r(1)}$
Ingress protection (IP)	IP 67
Electrical connection	2m prewired cable

1 — The actual switching distance of an individual proximity sensor, measured at nominal supply voltage, specified temperature, and defined mounting conditions.

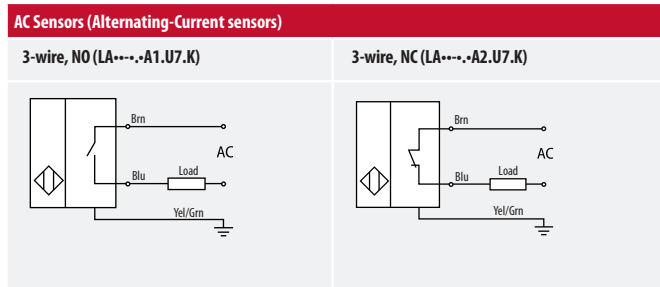
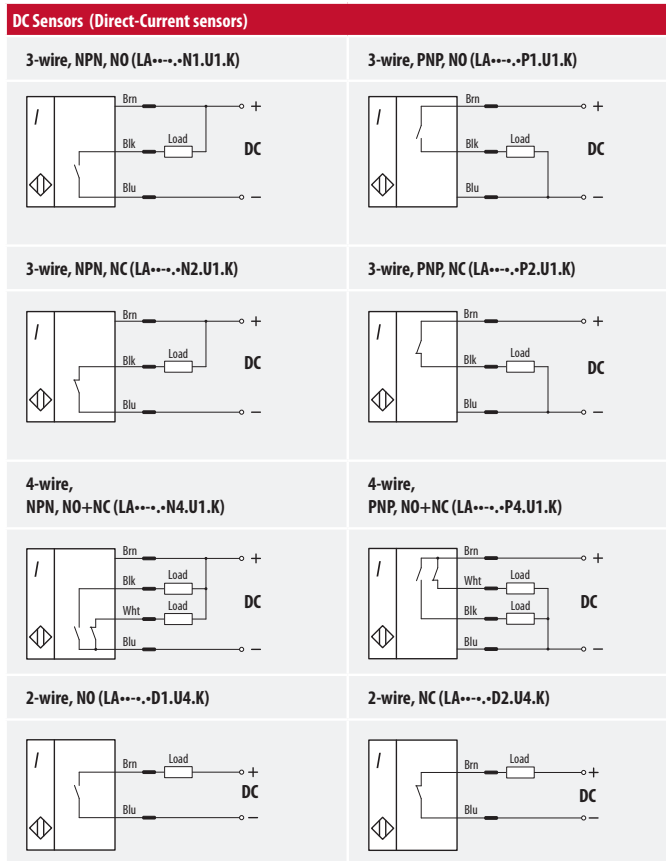
2 — Sensors with 18 mm body length: stainless steel housing; 45 mm body length: nickel-plated brass housing.

## Selection Table for KIPPRIBOR LA Series Inductive Proximity Sensors (Switches) with Cylindrical Housing and Pre-wired Cable

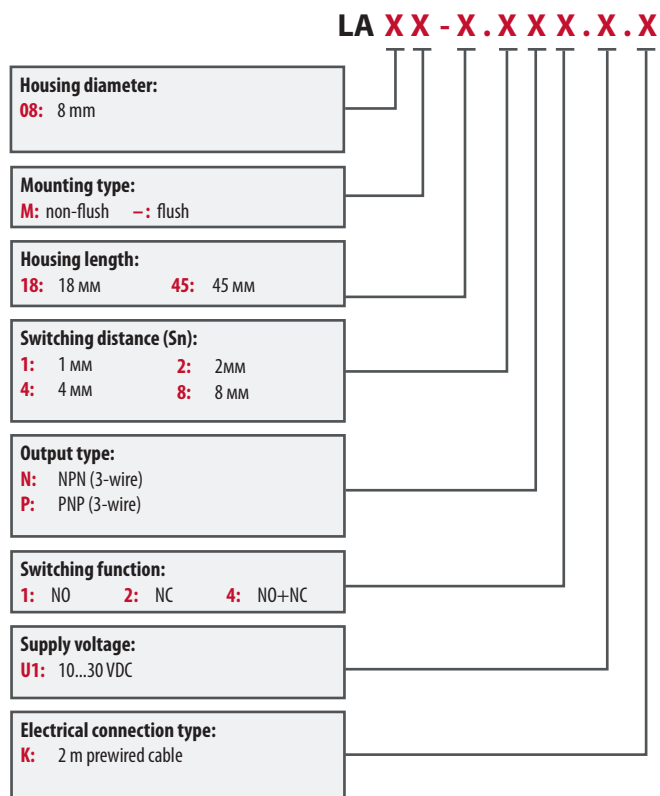
Dimensional drawing	Supply voltage	Output type	Switching function	Nominal switching distance	Max. switch frequency	Model
<b>Flush Mounting type</b>						
	10...30 VDC	3-wire PNP	NO	1 mm	2 kHz	LA08-18.1N1.U1.K
		3-wire NPN	NO			LA08-18.1P1.U1.K
		3-wire PNP	NC			LA08-18.1N2.U1.K
		3-wire NPN	NC			LA08-18.1P2.U1.K
<b>Non-Flush Mounting type</b>						
	10...30 VDC	3-wire PNP	NO	2 mm	2 kHz	LA08M-18.2N1.U1.K
		3-wire NPN	NO			LA08M-18.2P1.U1.K
		3-wire PNP	NC			LA08M-18.2N2.U1.K
		3-wire NPN	NC			LA08M-18.2P2.U1.K

Dimensional drawing	Supply voltage	Output type	Switching function	Nominal switching distance	Max. switch frequency	Model	
<b>Flush Mounting type</b>							
	10...30 VDC	3-wire NPN	NO	1 mm	500 Hz	LA08-45.1N1.U1.K	
			NC			LA08-45.1N2.U1.K	
		4-wire NPN	NO+NC			LA08-45.1N4.U1.K	
			NO			LA08-45.1P1.U1.K	
		3-wire PNP	NC			LA08-45.1P2.U1.K	
			NO+NC			LA08-45.1P4.U1.K	
		3-wire NPN	NO			4 mm	LA08-45.4N1.U1.K
			NC				LA08-45.4N2.U1.K
		4-wire NPN	NO+NC				LA08-45.4N4.U1.K
			NO				LA08-45.4P1.U1.K
		3-wire PNP	NC				LA08-45.4P2.U1.K
			NO+NC				LA08-45.4P4.U1.K
<b>Non-Flush Mounting type</b>							
	10...30 VDC	3-wire NPN	NO	2 mm	300 Hz		LA08M-45.2N1.U1.K
			NC				LA08M-45.2N2.U1.K
		4-wire NPN	NO+NC				LA08M-45.2N4.U1.K
			NO				LA08M-45.2P1.U1.K
		3-wire PNP	NC				LA08M-45.2P2.U1.K
			NO+NC			LA08M-45.2P4.U1.K	
		3-wire NPN	NO			8 mm	LA08M-45.8N1.U1.K
			NC				LA08M-45.8N2.U1.K
		3-wire PNP	NO				LA08M-45.8P1.U1.K
			NC				LA08M-45.8P2.U1.K

# Output Wiring Diagrams for LA08 Series Inductive Proximity Sensors



## Designation System



## Example of designation:

**LA08-45-1N1.U1.K** — inductive sensor with an 8 mm diameter flush-mountable housing, a housing length of 45 mm with, 1 mm nominal sensing distance, 3-wire NPN connection, normally open (NO) switching function, 10...30 VDC supply voltage, and a 2 m cable.

## Accessories

For connecting the LA sensors, we offer KIPPRIBOR extension cables and connectors with M12 (female) plugs.