

norelem controls

Electromechanical

82000 / 83000

Power supply units



82100-10
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Switched-mode power supplies
for top-hat rail mounting



Sensor technology



83000
Page 1154



Inductive proximity switches
round housing

83000-05
Page 1155



Inductive proximity switches
rectangular housing

83000-10
Page 1156



Inductive proximity switches
threaded housing



83000

Sensor technology



41000

80000

82000

83000

84000

85000

95000

96000

97000



A-Z

Inductive proximity switches

round housing



Material:

Housing stainless steel.
Active face POM or PBT.

Version:

Voltage: $U = 10 - 30 \text{ V DC}$
Function: Normally open
Switch type: PNP
Mounting type: flush
Security type: IP 67

Sample order:

nIm 83000-010X2000

Note:

Non-contact, wear-free operation. High switching frequency and switch accuracy. Non-sensitive to vibration, dust and moisture. Inductive sensors register all metals without contact.

Short-circuit and reverse-polarity proof.

Temperature range:

$-25 \text{ }^{\circ}\text{C}$ to $+70 \text{ }^{\circ}\text{C}$

Safety:

This product is not suited as a sensor for the personal protection.

Drawing reference:

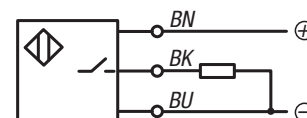
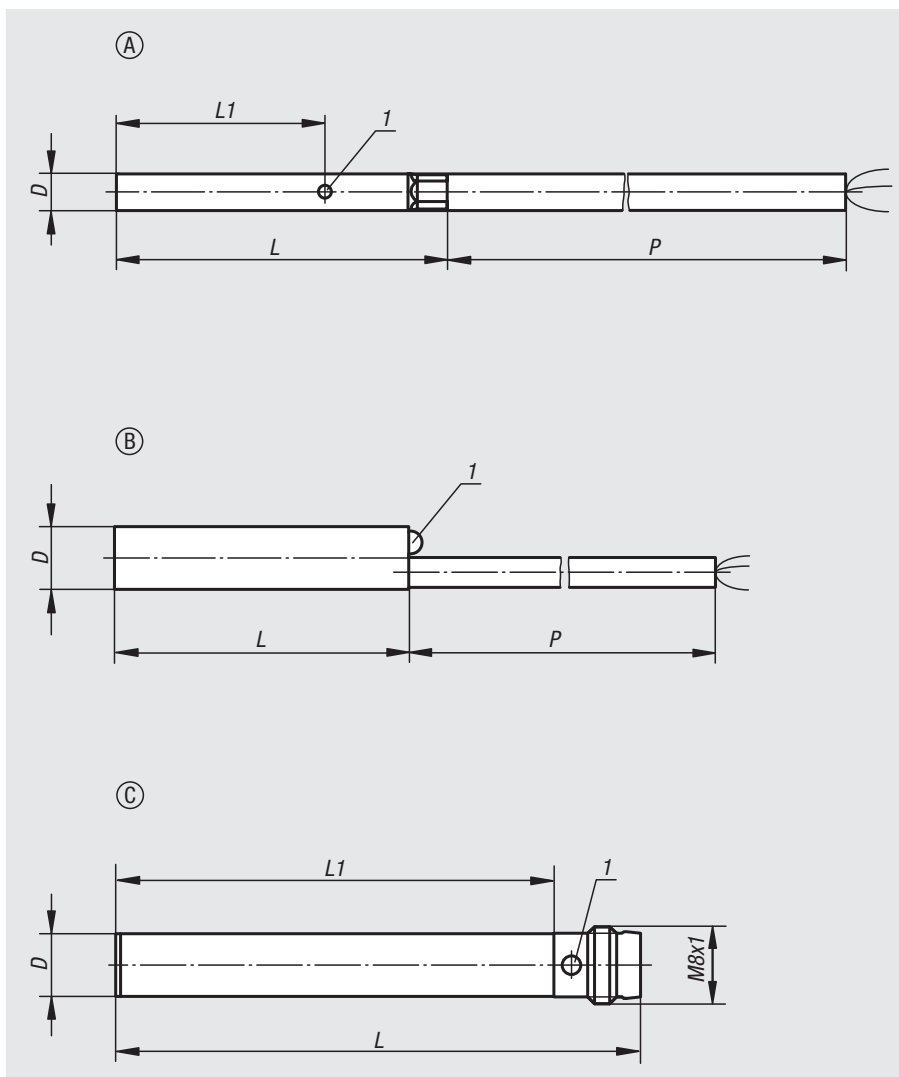
1) LED-indicator

P = cable length

BN = brown

BK = black

BU = blue



Order No.	Form	D	L	L1	P	Material active surface	Switching distance S_n (mm)	Current I max. (mA)	Switching frequency f (Hz)	Connection type	No. of conductors x conductor cross-section
83000-010X2000	A	3	27	16,7	2000	POM	1	100	2000	PUR cable	3 x 0,09 mm ²
83000-020X5000	A	4	27	15,4	5000	POM	1,5	100	3000	PUR cable	3 x 0,14 mm ²
83000-030X3000	B	6,5	30	-	3000	PBT	1,5	200	3000	PVC cable	3 x 0,14 mm ²
83000-040	C	6,5	55	43	-	PBT	1,5	200	3000	Connector 3-pin	-
83000-050	C	6,5	60	48	-	PBT	1,5	200	5000	Connector 3-pin	-

Inductive proximity switches

rectangular housing



Material:

Housing Form A plastic.

Housing Form B die-cast zinc alloy. Active face POM.

Housing Form C high-alloy stainless steel

Version:

Voltage: $U = 10 - 30 \text{ V DC}$

Function: Normally open

Switch type: PNP

Mounting type: flush

Security type: IP 67

Sample order:

nIm 83000-05-010

Note:

Non-contact, functions wear-free with high switching frequency and accuracy. Non-sensitive to vibrations, dust and moisture. Inductive sensors record all metals without contact.

Form C enables screw fastening in a T-slot. Is safe and saves space as the proximity switch lays flush in the slot.

Short-circuit proof and reverse-polarity protected.

Temperature range:

-25°C to $+70^\circ\text{C}$

Safety:

This product is not suited as a sensor for the personal protection.

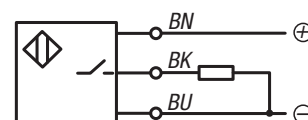
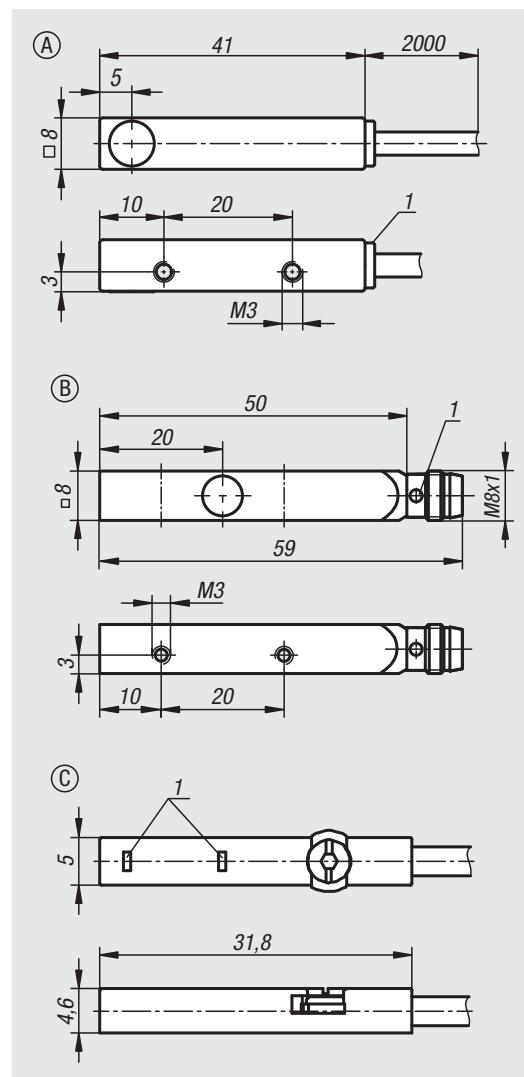
Drawing reference:

1) LED-indicator

BN = brown

BK = black

BU = blue



Order No.	Form	Switching distance S_n (mm)	Current I max. (mA)	Switching frequency f (Hz)	Connection type	No. of conductors x conductor cross-section
83000-05-005	A	2	100	1500	PUR cable	3 x 0,14 mm ²
83000-05-010	B	1,5	200	5000	Connector 3-pin	-
83000-05-015	C	1,5	150	4500	TPE-U (PU) CABLE	3 x 0,14 mm ²

Inductive proximity switches

threaded housing



Material:

Housing stainless steel or nickel-plated brass.
Active face PBT or PA 12.

Version:

Voltage: $U = 10 - 30 \text{ V DC}$
Function: Normally open
Switch type: PNP
Mounting type: flush
Security type: IP 67

Sample order:

nIm 83000-10-010X5000

Note:

Non-contact, wear-free operation. High switching frequency and switch accuracy. Non-sensitive to vibration, dust and moisture. Inductive sensors register all metals without contact.

Short-circuit and reverse-polarity proof.

Temperature range:

-25°C to $+70^\circ\text{C}$

Safety:

This product is not suited as a sensor for the personal protection.

Drawing reference:

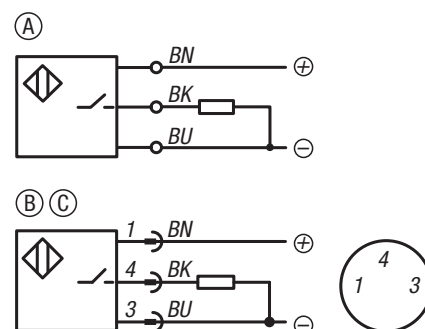
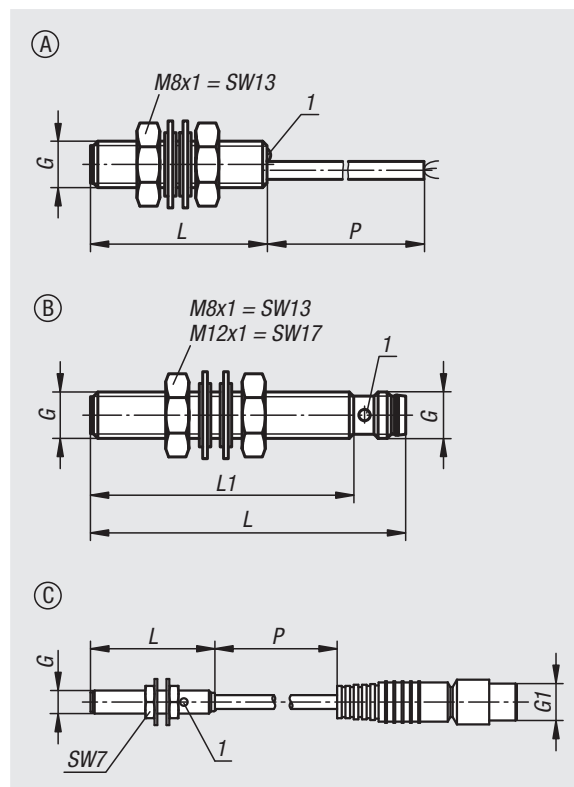
1) LED-indicator

P = cable length

BN = brown

BK = black

BU = blue



Order No.	Main material	Form	G	L	L1	P	Material active surface	Switching distance Sn (mm)	Current I max. (mA)	Switching frequency f (Hz)	Connection type	No. of conductors x conductor cross-section
83000-10-010X5000	stainless steel	A	M8x1	30	-	5000	PBT	1,5	200	3000	PUR cable	3 x 0,14 mm ²
83000-10-020	stainless steel	B	M8x1	45	34,5	-	PBT	2	200	1500	Connector 3-pin	-
83000-10-030	stainless steel	B	M8x1	55	44,5	-	PBT	2	200	1500	Connector 3-pin	-
83000-10-040	brass	B	M8x1	59	50	-	PA 12	1,5	200	1000	Connector 3-pin	-
83000-10-050	brass	B	M8x1	59	50	-	PA 12	2	200	700	Connector 3-pin	-
83000-10-060	brass	B	M12x1	65	50	-	PA 12	2	200	1200	Connector 3-pin	-
83000-10-070	brass	B	M12x1	65	50	-	PA 12	4	200	500	Connector 3-pin	-
83000-10-080X300	stainless steel	C	M5X0,5	27	-	300	PBT	0,8	100	5000	connector 3-pin	-