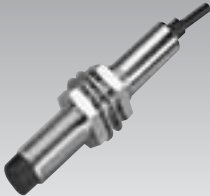
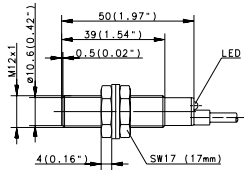
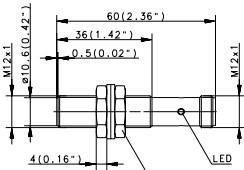
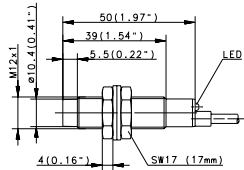
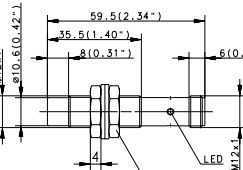
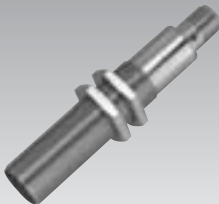
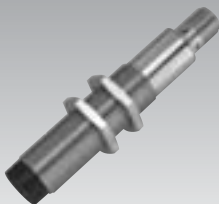
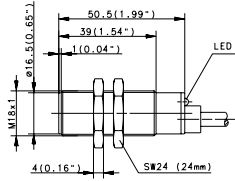
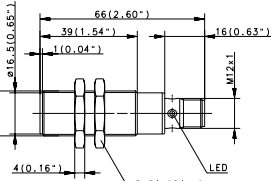
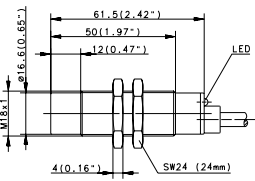
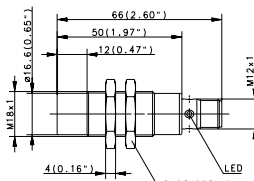


Inductive sensors with increased sensing distances

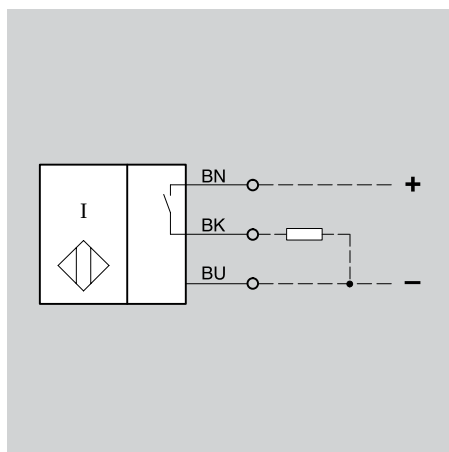
Type M12	4 mm sensing distance		8 mm sensing distance	
				
	flush metal design		non-flush metal design	
	2 m cable	M12 plug	2 m cable	M12 plug
PNP normally-open contact*)	KIB-M12PS/004-KL2E 650.2903.025	KIB-M12PS/004-KLS12E 650.2943.015	KIN-M12PS/008-KL2E 650.2904.021	KIN-M12PS/008-KLS12E 650.2944.013
Dimensions				

Type M18	8 mm sensing distance		16 mm sensing distance	
				
	flush metal design		non-flush metal design	
	2 m cable	M12 plug	2 m cable	M12 plug
PNP normally-open contact*)	KIB-M18PS/008-KL2E 650.2905.022	KIB-M18PS/008-KLS12E 650.2940.005	KIN-M18PS/016-KL2E 650.2906.018	KIN-M18PS/016-KLS12E 650.2941.004
Dimensions				

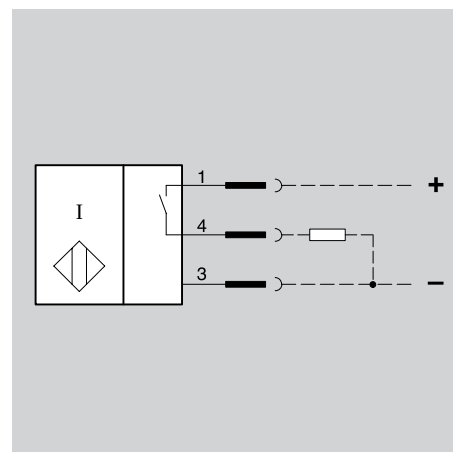
*) Order only with part number, NPN- and normally-closed version on request

Wiring diagrams

Type M12/M18, cable version



Type M12/M18, plug version



Accessories

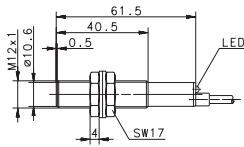
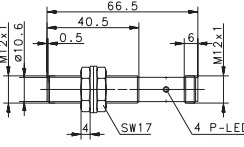
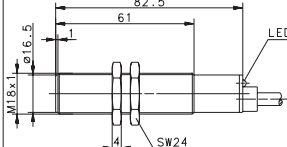
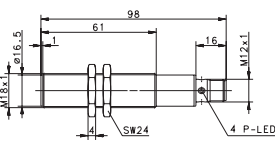
Cable couplings see page 284 ff.

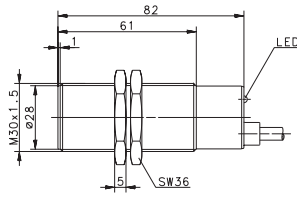
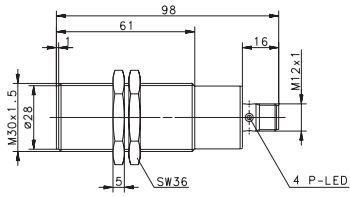
General data

		M12		M18	
		flush	non-flush	flush	non-flush
Operating voltage	U_B	10–36 V			
Rated operating voltage	I_B	≤ 200 mA			
Switching hysteresis	H	10% from rated switching distance			
Reproducibility	R	$\leq 5\%$			
Switching frequency	F	800 Hz	400 Hz	500 Hz	200 Hz
Output		short circuit- and overload proof			
Polarity reversal protection		yes			
Rated switching distance	S_n	4 mm	8 mm	8 mm	16 mm
Functions-/operating voltage display		●/–	●/–	●/–	●/–
Ambient temperature		– 25 °C to + 70 °C			
Protection class		IP 67 according to IEC 529, EN 60 529			
Enclosure		nickel-plated brass (CuZn39Pb3)			
Cable PVC	mm ²	3 x 0.14		3 x 0.5	

Inductive sensors

Temperature range
-40 °C to +100 °C

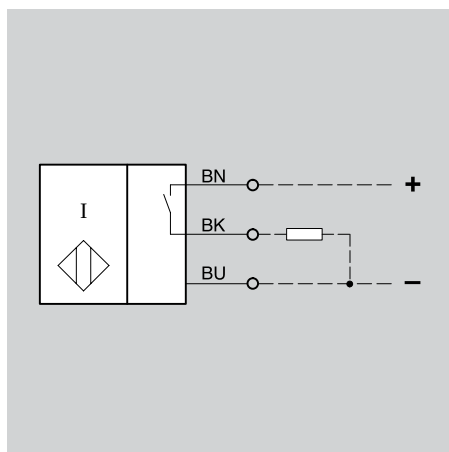
Type M12 M18	2 mm sensing distance M12		5 mm sensing distance M18	
				
	flush metal design		flush metal design	
PNP normally-open contact*)	2 m cable	M12 plug	2 m cable	M12 plug
Model description Part number	KIB-M12PS/002-KL2T 650.2903.026	KIB-M12PS/002-KLS12T 650.2943.016	KIB-M18PS/005-KL2PUT 650.2905.023	KIB-M18PS/005-KLS12T 650.2940.006
Dimensions				

Type M30	10 mm sensing distance	
		
	flush metal design	
PNP normally-open contact*)	2 m cable	M12 plug
Model description Part number	KIB-M30PS/010-KL2PUT 650.2907.013	KIB-M30PS/010-KLS12T 650.2939.006
Dimensions		

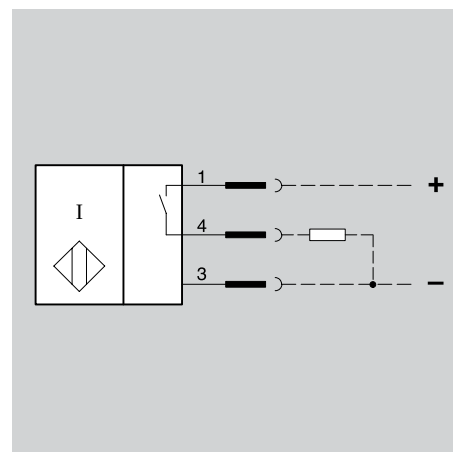
*) Order only with part number, NPN- and normally-closed version on request

Wiring diagrams

Type M12/M18/M30, cable version



Type M12/M18/M30, plug version



Sensors

Accessories

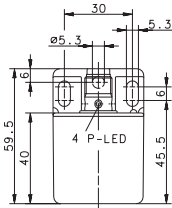
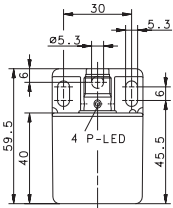
Cable couplings see page 284 ff.

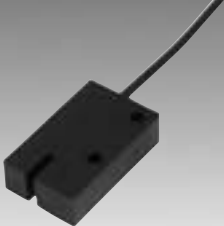
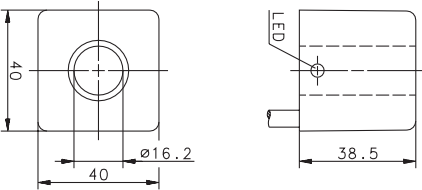
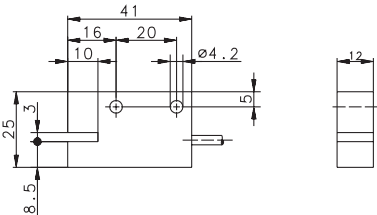
General data

		M12 flush	M18 flush	M30 flush
Operating voltage	U_B		10–36 V	
Rated operating voltage	I_B		≤ 200 mA	
Switching hysteresis	H		10% from rated switching distance	
Reproducibility	R		$\leq 5\%$	
Switching frequency	F	800 Hz	500 Hz	300 Hz
Output			short circuit- and overload proof	
Polarity reversal protection			yes	
Rated switching distance	S_n	2 mm	5 mm	10 mm
Functions-/operating voltage display		●/–	●/–	●/–
Ambient temperature				
			– 40 °C to + 100 °C	
Protection class			IP 67 according to IEC 529, EN 60 529	
Enclosure			nickel-plated brass (CuZn39Pb3)	
Cable PVC	mm ²	3 x 0.14	3 x 0.5	3 x 0.5

Inductive sensors

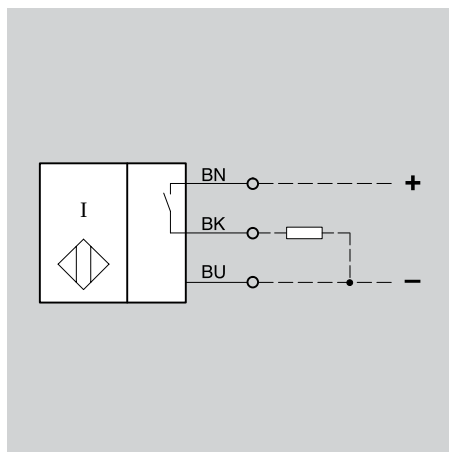
Special-purpose design

Type N40	15 mm sensing distance		20 mm sensing distance	
				
	Flush design		Non-flush design	
	M12 plug/PNP NO contact	M12 plug/PNP NC contact	M12 plug/PNP NO contact	M12 plug/PNP NO contact
Model description Part number	KIB-N40PS/015-KLS12 650.2988.001	KIB-N40PÖ/015-KLS12 650.2788.001	KIN-N40PS/020-KLS12 650.2982.003	KIN-N40PÖ/020-KLS12 650.2782.001
Dimensions				

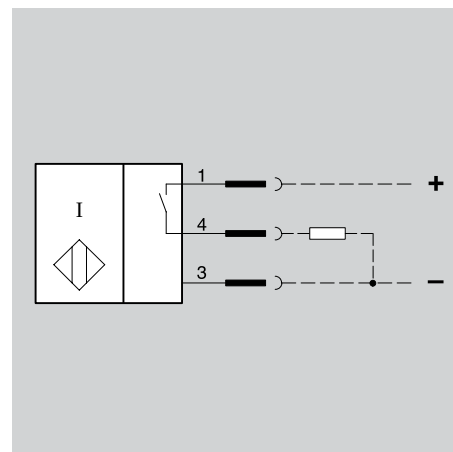
Type N40 – Ring sensor Type S03 – Slot sensor	Ring sensor Ø 16 mm		Slot sensor 3 mm slot width	
				
	6 m cable		2 m cable	
	PNP-NO contact	NPN-NO contact	PNP-NO contact	NPN-NO contact
Model description Part number	KIR-N40PS/000-KL6 650.2999.036	KIR-N40NS/000-KL6 660.2399.375	KIN-S03PS/003K2 650.2999.035	–
Dimensions				

Wiring diagrams

Type N40, cable version
Type SO3, slot sensor



Type N40, plug version



Accessories

Cable couplings see page 284 ff.

General data

		N40 flush		N40 non-flush	N40 Ring sensor	N40 Slot sensor
Operating voltage	U _B	10–36 V			10–30 V	
Rated operating voltage	I _B	≤ 200 mA				
Switching hysteresis	H	10% from rated switching distance			–	
Reproducibility	R	≤ 5%				
Switching frequency	F	100 Hz		50 Hz		4000 Hz
Output		continuous short-circuit- and overload proof				
Polarity reversal protection		yes				
Rated switching distance	S _n	15 mm	20 mm		Immersion approx. 20 mm	Immersion approx. 7 mm
Functions-/operating voltage display		●/–		●/–	●/–	–/–
Ambient temperature		– 25 °C to + 70 °C				
Protection class		IP 67 according to IEC 529, EN 60 529				
Enclosure		PA6			PA6	
Connection	mm ²	S12 plug			cable 3 x 0.5 mm ²	cable 3 x 0.14 mm ²

NAMUR
DIN EN 60947-5-6



Rated operating distance	
Mounting	flush /non-flush
Switching functions	
Model description	
Part number	
Wiring diagram	(page/Pos.)
Stock status: Ex stock/Built to order	
Mechanical data	
Housing material	
Cable length 2 m/6.5 ft. mm	
Accessories (page/Pos.)	

M 5; 25 mm length

1 mm (0.04")
●/-
NAMUR / B
KIB-M05EA/ 001-2
658.1699.009
263/8
●/-
CuZn39Pb3
PVC 2 x 0.14
-

M 8 x 1; 32 mm length

1.5 mm (0.06")
●/-
NAMUR / A
KIB-M08EA/ 1.5-2
658.1601.001
263/8
●/-
stainless steel 1.4305
PVC 2 x 0.25
-



Rated operating distance	
Mounting	flush /non-flush
Switching functions	
Model description	
Part number	
Wiring diagram	(page/Pos.)
Stock status: Ex stock/Built to order	
Mechanical data	
Housing material	
Cable length 2 m/6.5 ft. mm	
Accessories (page/Pos.)	

M 8 x 1; 32 mm length

2 mm (0.08")
-/●
NAMUR / A
KIN-M08EA/ 002-2
658.1601.002
263/8
-/●
stainless steel 1.4305
PVC 2 x 0.25
-

M 12 x 1; 30 mm length

2 mm (0.08")
●/-
NAMUR / A
KIB-M12EA/ 002-2
658.1624.004
263/8
●/-
CuZn39Pb3
PVC 2 x 0.25
-

Electrical and mechanical data
for NAMUR inductive sensors

Electrical data	
Nominal input voltage 8.2 V DC	
Input resistance 1 kΩ	
Output current	
	Diagram A
damped	≤ 1 mA
undamped	≥ 4 mA

Mechanical data	
Temperature range min./max.	-25 °C/+70 °C
	-13 °F/+158 °F
Protection class IP 67/NEMA 4	

**M 12 x 1; 32 mm length****4 mm (0.16")**

-/●

NAMUR / AKIN-M12EA/
004-2**658.1625.006**

263/8

●/-

CuZn39Pb3

PVC 2 x 0.25

-

**M 18 x 1; 35 mm length****5 mm (0.20")**

●/-

NAMUR / AKIB-M18EA/
005-2**658.1626.007**

263/8

●/-

CuZn39Pb3

PVC 2 x 0.5

-

**M 18 x 1; 35 mm length****8 mm (0.32")**

-/●

NAMUR / AKIN-M18EA/
008-2**658.1627.008**

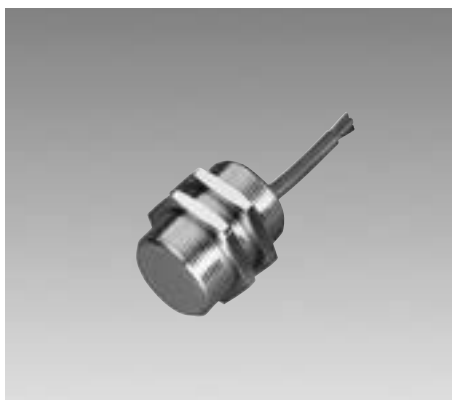
263/8

-/●

CuZn39Pb3

PVC 2 x 0.5

-

**M 30 x 1,5; 31 mm length****10 mm (0.39")**

●/-

NAMUR / AKIB-M30EA/
010-2**658.1699.010**

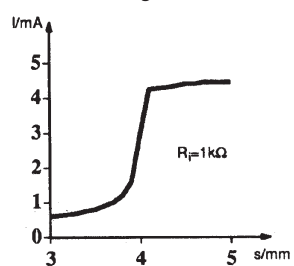
263/8

●/-

CuZn39Pb3

PVC 2 x 0.5

-

Diagram A**Diagram B**