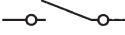
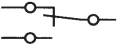
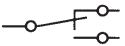


Inductive sensors

M 12 x 1

Rated operating distance	
Mounting	flush  /non-flush 
Switching functions	
	Model description
Part number	
Normally-open (NO)	Wiring diagram (page/pos.)
Stock status: Ex stock/Built to order	
	Model description
Part number	
Normally-closed (NC)	Wiring diagram (page/pos.)
Stock status: Ex stock/Built to order	
	Model description
Part number	
Normally-closed/open (NC/NO) selectable	Wiring diagram (page/pos.)
Stock status: Ex stock/Built to order	
	Model description
Part number	
Complementary	Wiring diagram (page/pos.)
Stock status: Ex stock/Built to order	
Electrical data	
Voltage range	
Output current	min./max.
Switching frequency	max.
Short-circuit protection	
LED: yellow = switched / green = power	
Sensitivity adjustment	
Mechanical data	
Temperature range	
Protection type	
Housing material	
Termination	cable 2 m/6.5 ft mm²
	plug (page)
Accessories	(page/Pos.)

Dimension diagrams

All dimensions in mm (inch)

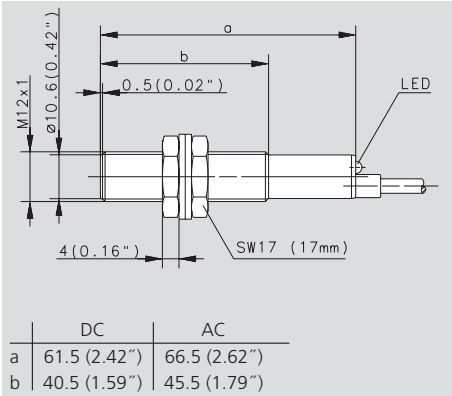


M 12 x 1

2 mm (0.08")		
●/-	●/-	●/-
NPN	PNP	AC
KIB-M12NS/ 002-KL2	KIB-M12PS/ 002-KL2	KIB-M12AS/ 002-L2
650.2303.001	650.2903.003	650.3503.001
263/4	263/1	265/4
-/-	●/-	●/-
-	KIB-M12PÖ/ 002-KL2	KIB-M12AÖ/ 002-L2
	650.2703.001	650.3403.001
	263/2	265/5
	-/-	-/-
-	-	-

10–36 V	10–36 V	90–250 V
-/200 mA	-/200 mA	4/180 mA
800 Hz	800 Hz	10 Hz
●	●	-
●/-	●/-	●/-
-	-	-

-25 °C/+70 °C	-25 °C/+70 °C	-25 °C/+70 °C
-13 °F/+158 °F	-13 °F/+158 °F	-13 °F/+158 °F
IP 67/NEMA 4	IP 67/NEMA 4	IP 67/NEMA 4
CuZn39Pb3	CuZn39Pb3	CuZn39Pb3
PVC 3x0.14	PVC 3x0.14	PVC 2x0.14
-	-	-
-	-	-

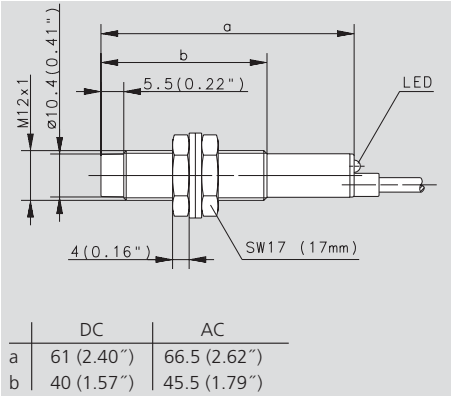


M 12 x 1

4 mm (0.16")		
-/●	-/●	-/●
NPN	PNP	AC
KIN-M12NS/ 004-KL2	KIN-M12PS/ 004-KL2	KIN-M12AS/ 004-L2
650.2304.001	650.2904.002	650.3504.001
263/4	263/1	265/4
●/-	●/-	●/-
KIN-M12NÖ/ 004-KL2	KIN-M12PÖ/ 004-KL2	KIN-M12AÖ/ 004-L2
650.2104.001	650.2704.001	650.3404.001
263/5	263/2	265/5
-/-	●/-	-/-
-	-	-

10–36 V	10–36 V	90–250 V
-/200 mA	-/200 mA	4/180 mA
400 Hz	400 Hz	10 Hz
●	●	-
●/-	●/-	●/-
-	-	-

-25 °C/+70 °C	-25 °C/+70 °C	-25 °C/+70 °C
-13 °F/+158 °F	-13 °F/+158 °F	-13 °F/+158 °F
IP 67/NEMA 4	IP 67/NEMA 4	IP 67/NEMA 4
CuZn39Pb3	CuZn39Pb3	CuZn39Pb3
PVC 3x0.14	PVC 3x0.14	PVC 2x0.14
-	-	-
-	-	-



**M 12 x 1****2 mm (0.08")**

●/-	●/-	-
NPN	PNP	AC
KIB-M12NS/ 002-KLS12 650.2343.003 263/4	KIB-M12PS/ 002-KLS12 650.2943.012 263/1	-
-/●	●/-	-
-	KIB-M12PÖ/ 002-KLS12 650.2743.003 263/2	-
-	-/●	-

M 12 x 1**4 mm (0.16")**

-	-/●	-
NPN	PNP	AC
-	KIN-M12PS/ 004-KLS12 650.2944.012 263/1	-
-	●/-	-
-	KIN-M12PÖ/ 004-KLS12 650.2744.003 263/2	-
-	-/●	-

M 12 x 1**2 mm (0.08")**

●/-	●/-	-
NPN	PNP	AC
-	KIB-M12PS/ 002-KL2V 650.2903.016 263/1	-
-/●	-/●	-
KIB-M12NÖ/ 002-KL2V 650.2103.003 263/5	KIB-M12PÖ/ 002-KL2V 650.2703.005 263/2	-
-/●	-/●	-

10-36 V	10-36 V	-
-/200 mA	-/200 mA	-
800 Hz	800 Hz	-
●	●	-
●/-	●/-	-
-	-	-

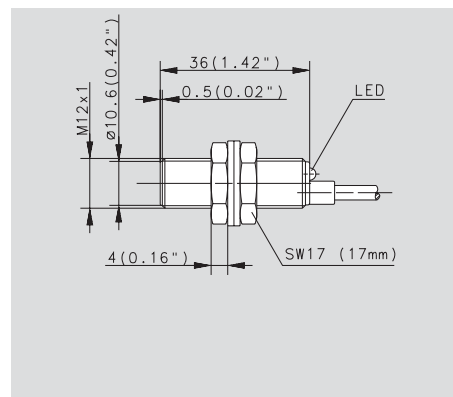
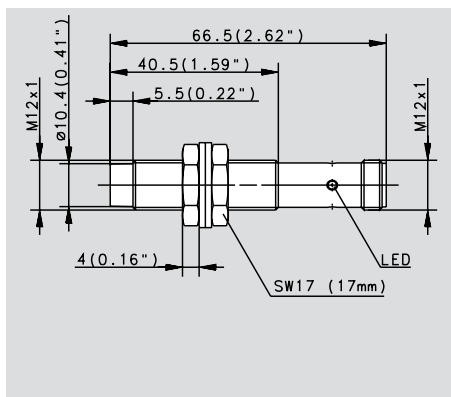
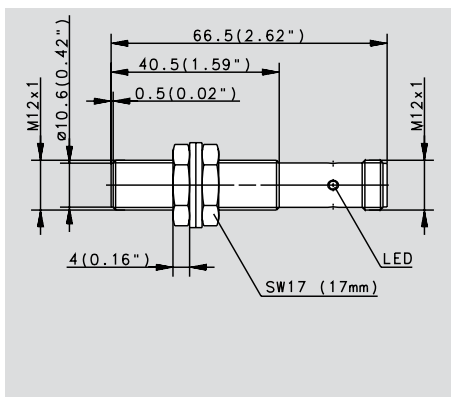
10-36 V	-
-/200 mA	-
800 Hz	-
●	-
●/-	-
-	-

10-36 V	10-36 V	-
-/200 mA	-/200 mA	-
800 Hz	800 Hz	-
●	●	-
●/-	●/-	-
-	-	-

-25 °C/+70 °C	-25 °C/+70 °C	-
-13 °F/+158 °F	-13 °F/+158 °F	-
IP 67/NEMA 4	IP 67/NEMA 4	-
CuZn39Pb3	CuZn39Pb3	-
-	-	-
284/285/286	284/285/286	-
-	-	-

-25 °C/+70 °C	-
-13 °F/+158 °F	-
IP 67/NEMA 4	-
CuZn39Pb3	-
-	-
284/285/286	-
-	-

-25 °C/+70 °C	-25 °C/+70 °C	-
-13 °F/+158 °F	-13 °F/+158 °F	-
IP 67/NEMA 4	IP 67/NEMA 4	-
CuZn39Pb3	CuZn39Pb3	-
PVC 3x0.14	PVC 3x0.14	-
-	-	-



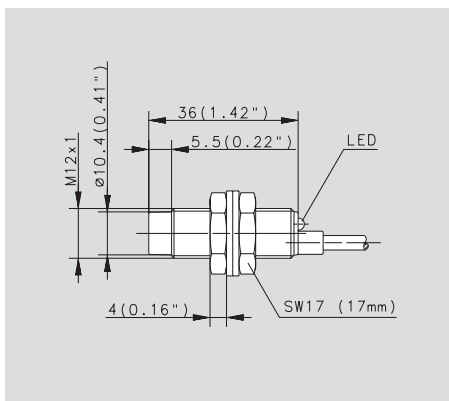
M 12 x 1



	Model description
Part number	
Normally-open (NO)	Wiring diagram (page/pos.)
Stock status: Ex stock/Built to order	
	Model description
Part number	
Normally-closed (NC)	Wiring diagram (page/pos.)
Stock status: Ex stock/Built to order	
	Model description
Normally-closed/open (NC/NO) selectable	Wiring diagram (page/pos.)
Stock status: Ex stock/Built to order	
	Model description
Part number	
Complementary	Wiring diagram (page/pos.)
Stock status: Ex stock/Built to order	

Electrical data	
Voltage range	
Output current	min./max.
Switching frequency	max.
Short-circuit protection	
LED: yellow = switched / green = power	
Sensitivity adjustment	
Mechanical data	
Temperature range	min./max.
Protection type	
Housing material	
Termination	cable 2 m/6.5 ft mm ² plug (page)
Accessories	(page/Pos.)

All dimensions in mm (inch)

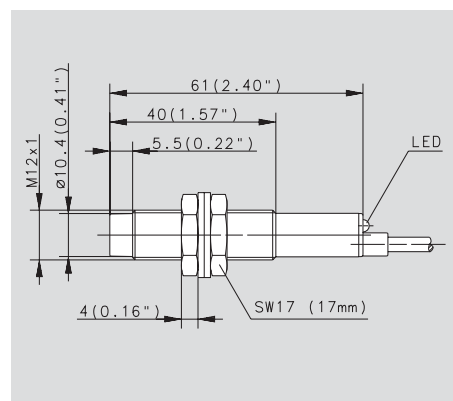
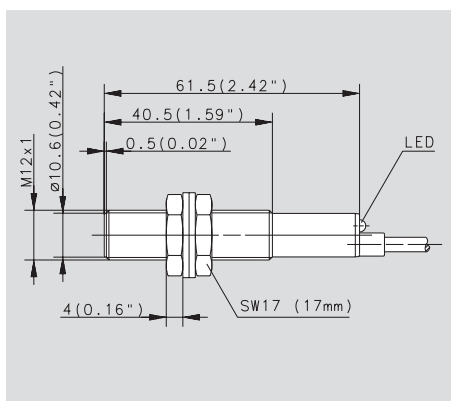
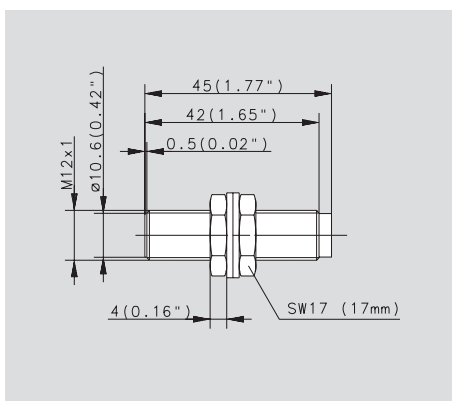


Technical drawing of a bolt assembly. The drawing shows a side view of a bolt and nut assembly. The bolt is labeled M12x1. The nut is labeled SW17 (17mm). The dimensions are as follows:

- Overall length: 45 (1.77")
- Length of the threaded part: 42 (1.65")
- Length of the unthreaded part: 5.5 (0.22")
- Thread pitch: 1
- Thread diameter: $\varnothing 10.4$ (0.41")
- Distance from the end of the bolt to the center of the nut: 4 (0.16")



M 12 x 1 2 mm (0.08")			M 12 x 1 4 mm (0.16")			M 12 x 1 6 mm (0.24")		
–	●/–	–	–	●/–	–	–/●	–/●	–
NPN	PNP	AC	NPN	PNP	AC	NPN	PNP	AC
–	KIB-M12PS/ 002-KS12V 650.2943.006 263/1	–	–	KIB-M12PS/ 004-KL2E 650.2903.014 263/1	–	KIN-M12NS/ 006-KL2E 650.2304.012 263/4	KIN-M12PS/ 006-KL2E 650.2904.009 263/1	–
–	●/–	–	–	●/–	–	–/●	●/–	–
–	KIB-M12PÖ/ 002-KS12V 650.2743.005 263/2	–	–	–	–	–	KIN-M12PÖ/ 006-KL2E 650.2704.005 263/2	–
–	–/●	–	–	–	–	–	–/●	–
–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–
–	10–36 V	–	–	10–60 V	–	10–60 V	10–60 V	–
–	–/200 mA	–	–	–/200 mA	–	–/200 mA	–/200 mA	–
–	800 Hz	–	–	800 Hz	–	400 Hz	400 Hz	–
–	●	–	–	●	–	●	●	–
–	–	–	–	●/–	–	●/–	●/–	–
–	–	–	–	–	–	–	–	–
–	–25 °C/+70 °C	–	–	–25 °C/+70 °C	–	–25 °C/+70 °C	–25 °C/+70 °C	–
–	–13 °F/+158 °F	–	–	–13 °F/+158 °F	–	–13 °F/+158 °F	–13 °F/+158 °F	–
–	IP 67/NEMA 4	–	–	IP 67/NEMA 4	–	IP 67/NEMA 4	IP 67/NEMA 4	–
–	CuZn39Pb3	–	–	CuZn39Pb3	–	CuZn39Pb3	CuZn39Pb3	–
–	–	–	–	PVC 3x0.14	–	PVC 3x0.14	PVC 3x0.14	–
–	284/285/286	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–



M 12 x 1



All dimensions in mm (inch)

Technical drawing of the LED module showing dimensions and components:

- Thread: M12 x 1
- Thread diameter: $\varnothing 10.6 (0.42")$
- Overall length: $61.5 (2.42")$
- Length of LED section: $40.5 (1.59")$
- Length of mounting section: $0.5 (0.02")$
- LED component
- SW17 (17mm) component
- Length of SW17 component: $4 (0.16")$



M 12 x 1 higher temperature range			M 12 x 1 higher switching frequency			M 12 x 1 higher switching frequency		
4 mm (0.16")			2 mm (0.08")			4 mm (0.16")		
–	–/●	–	●/–	●/–	–	–/●	–/●	–
NPN	PNP	AC	NPN	PNP	AC	NPN	PNP	AC
–	KIN-M12PS/ 004-KL2T 650.2904.011 263/1 –/●	–	KIB-M12NS/ 002-KL2F 650.2303.005 263/4 –/●	KIB-M12PS/ 002-KL2F 650.2903.012 263/1 –/●	–	KIN-M12NS/ 004-KL2F 650.2304.006 263/4 –/●	KIN-M12PS/ 004-KL2F 650.2904.010 263/1 ●/–	–
–	KIN-M12PÖ/ 004-KL5T 650.2704.004 263/2 –/●	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–
–	10–36 V	–	10–60 V	10–60 V	–	10–60 V	10–60 V	–
–	–/200 mA	–	–/200 mA	–/200 mA	–	–/200 mA	–/200 mA	–
–	400 Hz	–	4000 Hz	4000 Hz	–	3000 Hz	3000 Hz	–
–	●	–	●	●	–	●	●	–
–	●/–	–	●/–	●/–	–	●/–	●/–	–
–	–	–	–	–	–	–	–	–
–	0 °C/+100 °C	–	–25 °C/+70 °C	–25 °C/+70 °C	–	–25 °C/+70 °C	–25 °C/+70 °C	–
–	–32 °F/+212 °F	–	–13 °F/+158 °F	–13 °F/+158 °F	–	–13 °F/+158 °F	–13 °F/+158 °F	–
–	IP 67/NEMA 4	–	IP 67/NEMA 4	IP 67/NEMA 4	–	IP 67/NEMA 4	IP 67/NEMA 4	–
–	CuZn39Pb3	–	CuZn39Pb3	CuZn39Pb3	–	CuZn39Pb3	CuZn39Pb3	–
–	PVC 3x0.14	–	PVC 3x0.14	PVC 3x0.14	–	PVC 3x0.14	PVC 3x0.14	–
–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–

