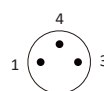


KH6.5E LONG SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Inductive sensor	CONNECTION TYPES (see table)
SIZE	Ø 6.5 mm	<ul style="list-style-type: none"> • Cable PVC, 0.15 mm², 2 m** • M8 connector, A-coded
RATED OPERATING DISTANCE	See table	
NUMBER OF CONDUCTORS	2-wire / 3-wire (see table)	

** Other cable lengths are available on request

MECHANICAL DATA

MOUNTING	Flush / non-flush (see table)
HOUSING	Cylindrical
MATERIAL HOUSING	Stainless steel
MATERIAL SENSING SURFACE	PBT
TIGHTENING TORQUE LOCKING	—
STANDARD TEST	FE360
ATTENUATION COEFFICIENT	St37 = 1, V2A = 0.7, Al = 0.3

ELECTRICAL DATA

OPERATING VOLTAGE	DC: 10 ... 30 V DC
RATED OPERATING CURRENT	2-wire: ≤ 100 mA 3-wire: ≤ 200 mA
SWITCHING FREQUENCY	See table
SWITCHING OUTPUT	See table
FUNCTION INDICATOR	Yellow LED
HYSTERESIS	3 ... 15 %
TEMPERATURE DRIFT	±10 %
SHORT-CIRCUIT PROTECTION	Yes
OVERLOAD RESISTANCE	Yes
REVERSE POLARITY PROTECTION	Yes

ENVIRONMENTAL CONDITIONS

PROTECTION CLASS	IP67	VIBRATION RESISTANCE (EN 60068-2-6)	10 ... 55 Hz, 1 mm
AMBIENT TEMPERATURE	-25 ... +70 °C	SHOCK RESISTANCE (EN 60068-2-27)	30 g, 11 ms

STANDARDS AND DIRECTIVES

EMC DIRECTIVE 2014/30/EU	EN IEC 60947-5-2
ROHS DIRECTIVE 2011/65/EU	EN IEC 63000

APPROVALS



KH6.5E LONG SERIES

DC 2-WIRE OUTPUT CABLE

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi1.5-KH6.5E-OD6L	flush	1.5 mm	DC NO (WD1)	1000 Hz	see Fig. 1
Fi1.5-KH6.5E-CD6L	flush	1.5 mm	DC NC (WD2)	1000 Hz	see Fig. 1
Ni2-KH6.5E-OD6L	non-flush	2 mm	DC NO (WD1)	1000 Hz	see Fig. 2
Ni2-KH6.5E-CD6L	non-flush	2 mm	DC NC (WD2)	1000 Hz	see Fig. 2

DC 2-WIRE OUTPUT M8 CONNECTOR

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi1.5-KH6.5E-OD6L-Q8	flush	1.5 mm	DC NO (WD1)	1000 Hz	see Fig. 3
Fi1.5-KH6.5E-CD6L-Q8	flush	1.5 mm	DC NC (WD2)	1000 Hz	see Fig. 3
Ni2-KH6.5E-OD6L-Q8	non-flush	2 mm	DC NO (WD1)	1000 Hz	see Fig. 4
Ni2-KH6.5E-CD6L-Q8	non-flush	2 mm	DC NC (WD2)	1000 Hz	see Fig. 4

DC 3-WIRE OUTPUT CABLE

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi1.5-KH6.5E-OP6L	flush	1.5 mm	PNP NO (WD7)	1000 Hz	see Fig. 1
Fi1.5-KH6.5E-ON6L	flush	1.5 mm	NPN NO (WD8)	1000 Hz	see Fig. 1
Fi1.5-KH6.5E-CP6L	flush	1.5 mm	PNP NC (WD9)	1000 Hz	see Fig. 1
Fi1.5-KH6.5E-CN6L	flush	1.5 mm	NPN NC (WD10)	1000 Hz	see Fig. 1
Ni2-KH6.5E-OP6L	non-flush	2 mm	PNP NO (WD7)	1000 Hz	see Fig. 2
Ni2-KH6.5E-ON6L	non-flush	2 mm	NPN NO (WD8)	1000 Hz	see Fig. 2
Ni2-KH6.5E-CP6L	non-flush	2 mm	PNP NC (WD9)	1000 Hz	see Fig. 2
Ni2-KH6.5E-CN6L	non-flush	2 mm	NPN NC (WD10)	1000 Hz	see Fig. 2

DC 3-WIRE OUTPUT M8 CONNECTOR

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi1.5-KH6.5E-OP6L-Q8	flush	1.5 mm	PNP NO (WD7)	1000 Hz	see Fig. 3
Fi1.5-KH6.5E-ON6L-Q8	flush	1.5 mm	NPN NO (WD8)	1000 Hz	see Fig. 3
Fi1.5-KH6.5E-CP6L-Q8	flush	1.5 mm	PNP NC (WD9)	1000 Hz	see Fig. 3
Fi1.5-KH6.5E-CN6L-Q8	flush	1.5 mm	NPN NC (WD10)	1000 Hz	see Fig. 3
Ni2-KH6.5E-OP6L-Q8	non-flush	2 mm	PNP NO (WD7)	1000 Hz	see Fig. 4
Ni2-KH6.5E-ON6L-Q8	non-flush	2 mm	NPN NO (WD8)	1000 Hz	see Fig. 4
Ni2-KH6.5E-CP6L-Q8	non-flush	2 mm	PNP NC (WD9)	1000 Hz	see Fig. 4
Ni2-KH6.5E-CN6L-Q8	non-flush	2 mm	NPN NC (WD10)	1000 Hz	see Fig. 4

KH6.5E LONG SERIES

DIMENSIONS

Fig. 1 Inductive sensor with cable (flush)

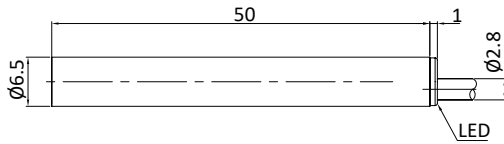


Fig. 2 Inductive sensor with cable (non-flush)

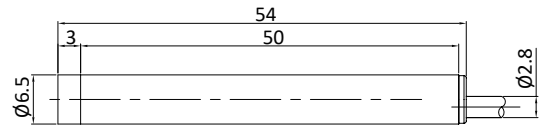


Fig. 3 Inductive sensor with M8 connector (flush)

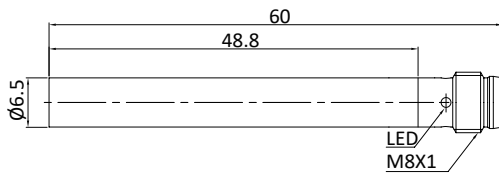
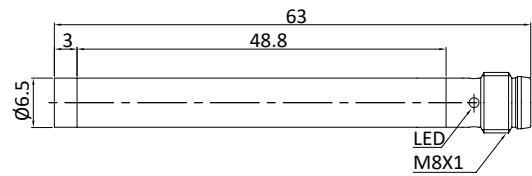


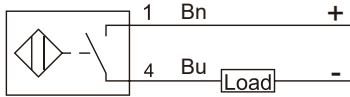
Fig. 4 Inductive sensor with M8 connector (non-flush)



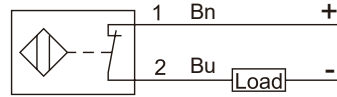
KH6.5E LONG SERIES

WIRING DIAGRAMS (Note: 1 / 2 / 3 / 4 connector and terminals pin number Bn / Bu / Wh / Bk cable color)

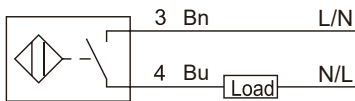
WD1 DC 2-wire NO



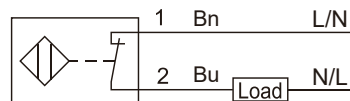
WD2 DC 2-wire NC



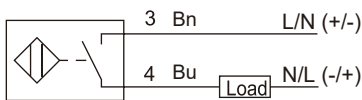
WD3 AC 2-wire NO



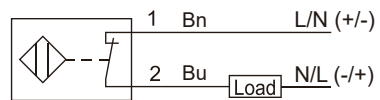
WD4 AC 2-wire NC



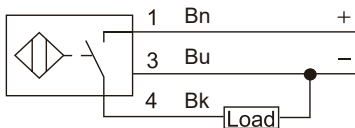
WD5 AC / DC 2-wire NO



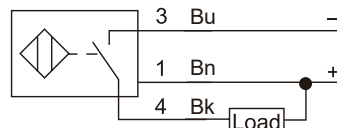
WD6 AC / DC 2-wire NC



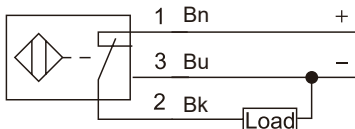
WD7 DC 3-wire PNP NO



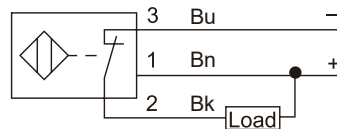
WD8 DC 3-wire NPN NO



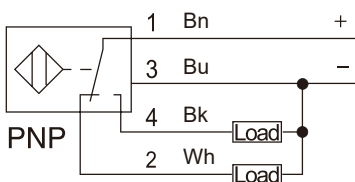
WD9 DC 3-wire PNP NC



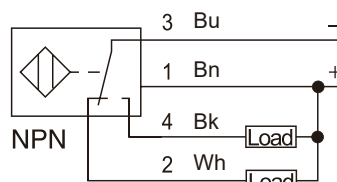
WD10 DC 3-wire NPN NC



WD11 DC 4-wire PNP NO + NC



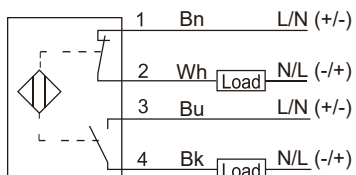
WD12 DC 4-wire NPN NO + NC



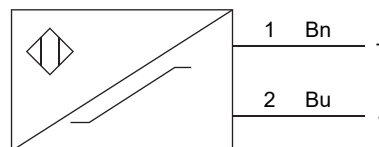
KH6.5E LONG SERIES

WIRING DIAGRAMS (Note: 1 / 2 / 3 / 4 connector and terminals pin number Bn / Bu / Wh / Bk cable color)

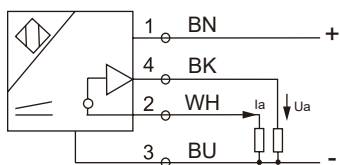
WD13 AC/DC 4-wire NO+NC



WD14 NAMUR 2-wire NC



WD15 DC 4-wire 0-10V+0-20mA



KH6.5E LONG SERIES

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