IL5 series

5 x 5 mm cubic
miniaturized inductive sensors

features

- **Complete range of cubic inductive sensors IL8 series: 5x5x25 mm**
- **IP67 protection degree**



web contents

- **Application notes**
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- **Catalogue / Manuals**

code description (*)

IL 5 / A P - 3 A

series	IL	Cubic inductive sensor
housing	5	5 x 5 x 25 mm
output state	A	NO output state
	C	NC output state
output logic	N	NPN logic output
	P	PNP logic output
distance	1	Standard shielded model 0.8 mm
	3	Long distance shielded model 1.5 mm
connect.	A	2 m cable exit in PUR
	VF80	Free connector M8 + cable 200 mm PUR (**)

(*) ATEX models available, contact our Sales Dept. for further information.

(**) Models without UL certification.

available model

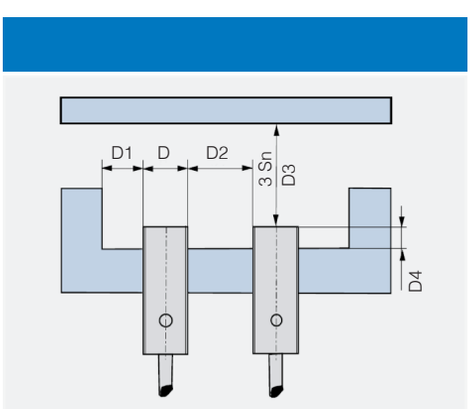
diameter (mm)	installation	distance	plug	distance (mm)	NPN/NO	NPN/NC	PNP/NO	PNP/NC
5 x 5	shielded	standard	cable	0.8	IL5/AN-1A	IL5/CN-1A	IL5/AP-1A	IL5/CP-1A
			pigtail M8		IL5/AN-1AVF80	IL5/CN-1AVF80	IL5/AP-1AVF80	IL5/CP-1AVF80
		long distance	cable	1.5	IL5/AN-3A	IL5/CN-3A	IL5/AP-3A	IL5/CP-3A
			pigtail M8		IL5/AN-3AVF80	IL5/CN-1AVF80	IL5/AP-3AVF80	IL5/CP-3AVF80

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technical specifications

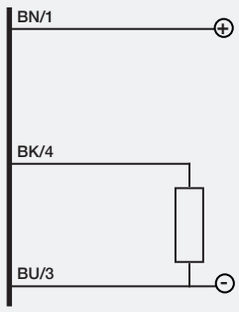
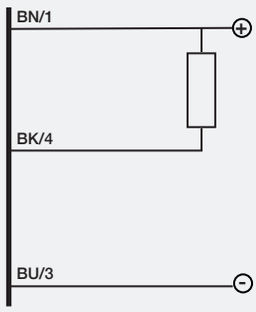
	IL5/**-1*	IL5/**-3*
		
nominal sensing distance	0.8 mm	1.5 mm
operating distance	0...0.65 mm	0...1.21 mm
hysteresis	1...20%	
standard target	5x5 mm FE360	
repeatibility	5% @UB=20...30 V; Ta = 23°C ±5°C	
operating voltage	10...30 Vcc	
max. ripple content	≤ 10%	
output current	≤ 100 mA	
output voltage drop	≤ 1.5 V @ 100 mA	
no-load supply current	≤ 10 mA	
logic output	PNP or NPN	
output state	NO or NC	
leakage current	≤ 10 µA	
switching frequency	≤ 7kHz	
power on delay	≤ 50 ms	
ambient temperature range	-25°C...+70°C	
temperature drift of Sr	≤ 10%	
short circuit protection	●	
induction protection	●	
voltage reversal protection	●	
shocks and vibrations	IEC 60947-5-2	
LEDs	yellow (output state)	
protection degree	IP67	
EMC	in conformity with the EMC Directive according to IEC 60947-5-2	
housing material	AISI303 stainless steel housing	
active head material	PBT	
connection	2m PUR cable exit / M8 plug + 200mm pigtail cable exit	

installation



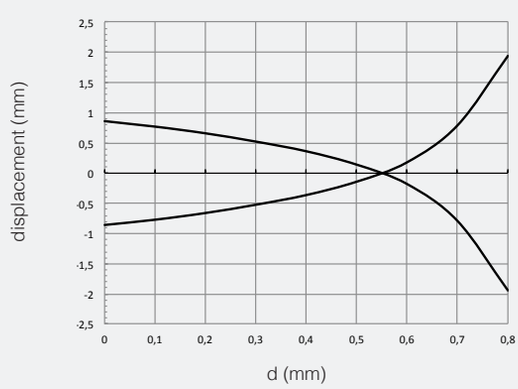
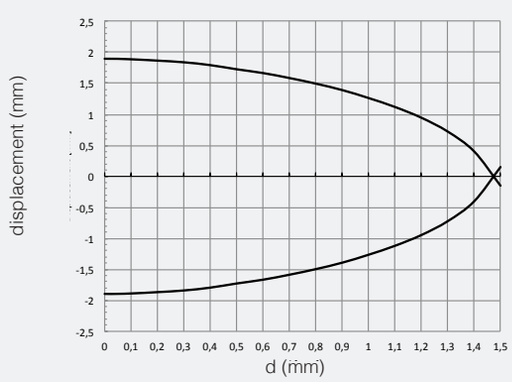
model	D4	D1	D2	D3
IL5/**-1*	≥ 0 mm	≥ 0 mm	≥ 1 mm	≥ 2.4 mm
IL5/**-3*			≥ 2 mm	≥ 4.5 mm

electrical diagrams of the connections

PNP	NPN
	

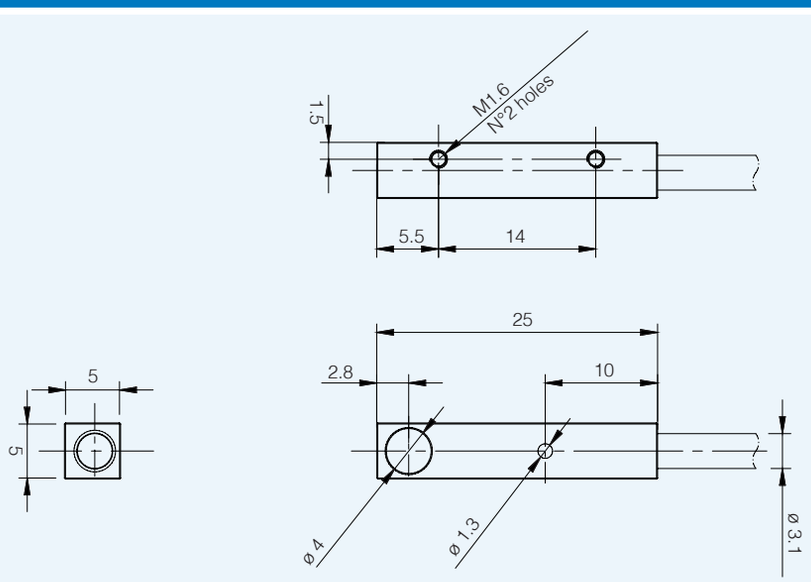
BN	brown
BU	blue
BK	black
WH	white

response diagram

IL5/**-1* parallel displacement	IL5/**-3* parallel displacement
	

dimensions (mm)

IL5/**-*A



1 LED