



## IL5

### IL5/AP-1AVF80

Ind.5x5,PNP-NO,Pigtail M8,Sch-STD  
5 X 5 MM CUBIC MINIATURIZED INDUCTIVE SENSORS

## OVERVIEW

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



## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	0,8mm
Operanting distance	0...0,65mm
Standard target	5x5mm FE360
Correction Factor	copper: $0,37 \pm 10\%$ / aluminium: $0,27 \pm 10\%$ / brass: $0,40 \pm 10\%$ / stainless steel: $0,61 \pm 10\%$
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C $\pm 5^{\circ}\text{C}$ )

Hysteresis	1 ... 20%
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## Application

Description	5x5x25mm cubic flush mount
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Functions	Proximity
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## Outputs

Output type	PNP
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Output Function	NO
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Switching frequency	$\leq 7\text{kHz}$
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## Electrical data

Operating Voltage	10...30Vdc
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No-Load supply current	$\leq 10\text{mA}$
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Load current	$\leq 100\text{mA}$
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Leakage current	$\leq 10\mu\text{A}$
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Output voltage drop	$\leq 1,5\text{V @}100\text{mA}$
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Max ripple content	$\leq 10\%$
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LED indicators	Blue LED output state
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Time delay before availability	$\leq 50\text{ms}$
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Impulsive Overvoltage Protection	Yes
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Protection against inductive loads	Yes
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#### Mechanical data

Dimensions	5 x 5 / L = 25mm
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Mounting	Shielded
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Material	AISI303 Stainless Steel
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Housing material	AISI303 Stainless Steel
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Weight	15g
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Connections	200mm PUR Cable + M8 Plug
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Active Head Material	PBT
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Operating temperature	-25°C...+70°C
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Diameter/Dimension	5x5x25mm
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#### Test/Approvals

Approvals	CE
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EMC compatibility	IEC 60947-5-2
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Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
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Degree of protection	IP67
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#### Accessories

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Supplied Accessories

2 screws 1.6x0.35 L10mm

#### Generical Data

Dimensions

5 x 5 / L = 25mm

Operating Temperature

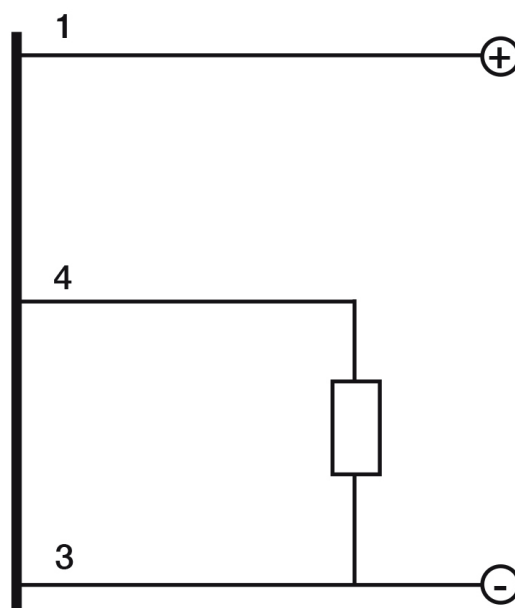
-25°C...+70°C

Mechanical Protection

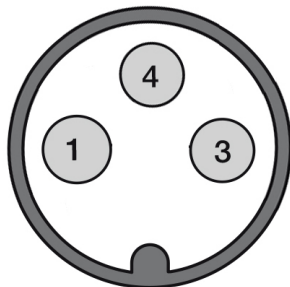
IP67

## CONNECTIONS

Electrical diagram

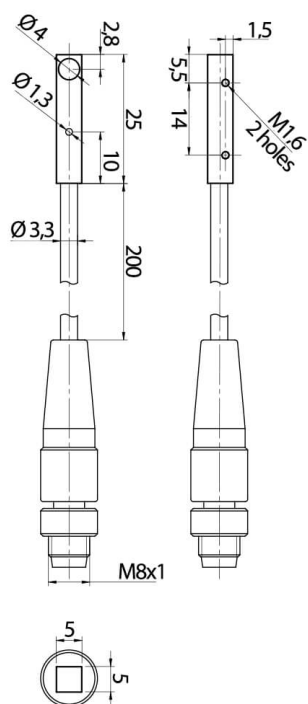


Connector



## OTHERS

### Dimensions



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