Inductive proximity sensor

**V**<sub>5</sub> Group

Inductive proximity sensors series - M5 mm NAMUR 2 wire, **DC** Switching output

# Highlights

#### Inductive sensor

When the metal conductive objects close to the magnetic field and reach the induction area, high-frequency alternating magnetic field generated by a LC oscillation circuit, which is composed of a coil wound on a ferrite, through the eddy current effect generated by internal of metal objects to achieve non-contact detection.

#### Standards

All inductive proximity sensors conform to IEC 60947-5-2.

#### Housing material

The housing material of sensor including nickel plated copper, also stainless steel and plastic with resistance of compression and temperature rapid change. Most of square sensor is plastic housing. These materials can also be used to produce square sensors with adjustable sensing surface or compact (small square) sensors. Such sensors can be used in the occasions of limited installation space or required large detection range.



# Application

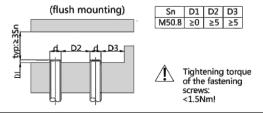
Inductive proximity switch is a low cost method for non-contact detection of metal objects, which is widely used in the following sectors, such as:

- Automotive Industry
- Metallurgical sector
- Machine tool sector - Robot industry
- Conveyor system
- Paper and printing industry - Mechanical Engineering

### ■ P/N table

Sensing distance	Sn: 0.8mm	
2 Wire , DC, NAMUR	VL1N-F05-0.8NO-DC2M	

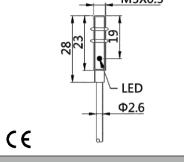
#### Installation

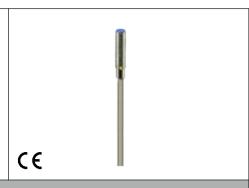


# Product parameters

# Features:

- Diameter M5
- Sensing distance: P/N table
- Body material: Stainless steel
- Built-in electric protection
- Output: See P/N table Connection:
- PVC cable/2m; 2\*0.18mm²
   Power supply: 6~12V DC





ECHNICAL	. INFORMATION	

See P/N table  Nav-ferrous metal Fe360 Aluminum	Factor	
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Fe360 Aluminum	Factor	
Grass Copper Stainless Steel Cast Iron Nickel	1 0.35 ~ 0.45 0.35 ~ 0.5 0.35 ~ 0.45 0.35 ~ 0.45 0.35 ~ 0.45 0.93 ~ 1.05 0.65 ~ 0.75	
Flush type installation		
< 10%		
6~12V DC	6~12V DC	
2000Hz		
≤ 6V DC		
> 2.2mA (OFF) / < 1.1mA (C	> 2.2mA (OFF) / < 1.1mA (ON)	
Max.load:400 mA ; Min.load:	Max.load:400 mA ; Min.load:5mA /	
Max.load:200 mA ; Min.load:	Max.load:200 mA ; Min.load:5mA /	
< 15% (Sr)		
< 2.0% (Sr)		
< 10% (Sr)		
Yes		
Yes		
Yes		
-2570 ℃		
IP67		
Stainless steel		
PBT		
PVC cable/2m ; 2*0.18mm²		
Two meter straight cable (P/N	Two meter straight cable (P/N: V5PN-SM8302OF) (available)	
Ten meter straight cable (P/N	I: V5PN-SM8310OF) (available)	
	Brass Copper Stainless Steel Cast Iron Nickel  Flush type installation < 10%  6~12V DC 2000Hz ≤ 6V DC > 2.2mA (OFF) / < 1.1mA (O Max.load:400 mA; Min.load: Max.load:200 mA; Min.load: < 15% (Sr) < 2.0% (Sr) < 10% (Sr)  Yes Yes Yes Yes  PYES  PYES  PVC cable/2m; 2*0.18mm²  Two meter straight cable (P/N)	

# ■ Input/Output circuit

