Sensing the dream

Inductive sensors

- Standard function
- Extended sensing distance
- NAMUR
- Analog output
- Extended temperature
- Frequency enhanced
- High pressure resistant
- Full metal housing
- Self-diagnosed
- Welding-immune
- With integrated rotation speed monitor

LANBAO

Shanghai Lanbao Sensor Co.,Ltd.

Lanbao Sensor

complete solution for the sensors

Established in 1998, Shanghai Lanbao Sensor Co.,Ltd is a leading supplier of electronic products in China. The company has been always dedicated in providing customers with individualized sensor products which are widely applied in industry and life area, engineering system, technical services and solutions.

Lanbao has successfully developed and produced over 3000 types of sensors: inductive sensors, capacitive sensors, photoelectric sensors, light curtains, magnetic sensors and solid state relays etc. All products have been certified according to CE, UL, CCC standards and meet the requirement of EU RoHS.

Focus on innovation, quality, service and global market, Lanbao insists on creating maximal value for customers.

Content

1 Overview

15 Standard function

15 Metal type

39 Rectangular type

57 Combined type

73 Extended sensing distance

73 Metal type

91 Combined type

107 NAMUR

115 Analog output

121 Extended temperature

121 Temperature influence-free (-40℃+70℃)

129 Temperature influence-free (-25+120℃)

137 Frequency enhanced

139 High pressure resistant

141 Full metal housing

143 Self-diagnosed

144 Welding-immune

148 With integrated rotation speed monitor

151 Wiring diagram

153 Naming rules

Inductive sensors

Standard function inductive sensors

- Non-contact detecting way effectively avoids abrasion, safe and reliable.
- Built-in ASIC ensures quick response, high frequency, stable performance.
- Complete range of specification:
  Smooth cylinder series: Φ4 to Φ34mm,
  threaded cylinder series :M5 to M30mm;
  rectangular series: 7*7mm to 80*80mm;

Inductive sensors

Extended sensing distance

- Easy to set position due to extended sensing distance

High pressure resistant

- Pressure influence-free up to 500Bar
- Applied in high hydraulic system field

NAMUR

- Low voltage and current
- Apply for flammable and explosive field such as mining and chemical industry

Full metal housing

- All-in-one stainless steeling design, excellent sealing
- Mechanical collision avoidance and corrosion resistance
- Widely used in auto industry, food and chemical industry

Analog output

- It will generate 0-10V, 0-20mA standard analog signal at the terminal with the vibration of the sensing distance,
- widely used for distance measuring, thickness measuring and selective measuring

Self-diagnosed

- Real-time detecting sensing status, safe and stable
- Applied in safety monitor field

Extended temperature

- Temperature influence-free up to 120℃,down to –40℃
- Widely applied in steeling, metallurgy and glass manufacture industry

Welding-immune

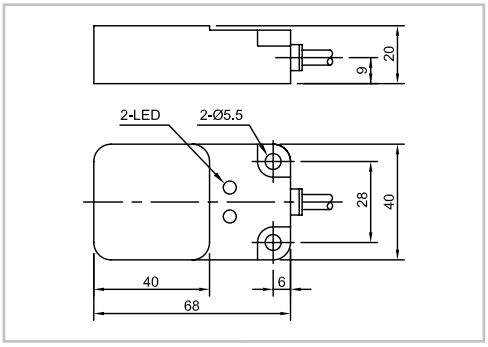
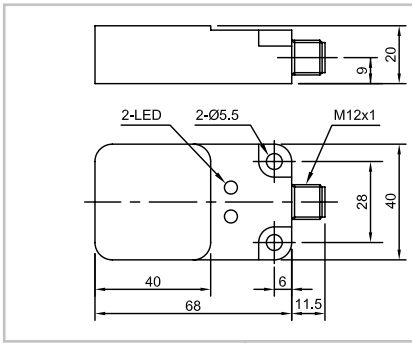
- Effectively avoids magnetic interference
- Widely apply for welding operation industry, lifting and elevation device, electronic furnace equipment and some other special magnetic interfered ambience.

Frequency enhanced

- Fast response
- Applied in high-speed measuring field

With integrated rotation speed monitor

- By detecting the metal object on the axis or gear to monitor over speed or low speed status. (adjust the cyclical damping of the built-in electronic device in sensors)

Item Code		LE68		LE68	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		15mm	25mm	15mm	25mm
Output	NPN NO	LE68SF15DNO	LE68SN25DNO	LE68SF15DNO-E2	LE68SN25DNO-E2
	NPN NC	LE68SF15DNC	LE68SN25DNC	LE68SF15DNC-E2	LE68SN25DNC-E2
	NPN NO+NC	LE68SF15DNR	LE68SN25DNR	LE68SF15DNR-E2	LE68SN25DNR-E2
Output	PNP NO	LE68SF15DPO	LE68SN25DPO	LE68SF15DPO-E2	LE68SN25DPO-E2
	PNP NC	LE68SF15DPC	LE68SN25DPC	LE68SF15DPC-E2	LE68SN25DPC-E2
	PNP NO+NC	LE68SF15DPR	LE68SN25DPR	LE68SF15DPR-E2	LE68SN25DPR-E2
Technical Parameter					
Supply voltage		10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift		＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current		＜200mA	＜200mA	＜200mA	＜200mA
Voltage drop		＜2. 5V	＜2. 5V	＜2. 5V	＜2. 5V
Consumption current		＜10mA	＜10mA	＜10mA	＜10mA
Hysteresis		1…20%	1…20%	1…20%	1…20%
Repeat accuracy		＜3%	＜3%	＜3%	＜3%
Frequency		500Hz	300Hz	500Hz	300Hz
Output indicator		Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection		yes	yes	yes	yes
Surge protection		yes	yes	yes	yes
Short-circuit protection		yes	yes	yes	yes
Ambient temperature		-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture		35...95%	35...95%	35...95%	35...95%
Protection degree		IP67	IP67	IP67	IP67
Housing material		PBT	PBT	PBT	PBT
Connection		2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification		CE UL	CE UL	CE UL	CE UL

★ Cable material and length can be customized