

CNK 330N Limit Switch Boxes (4-20mA Feedback)

Design

The is CNK-330N (4-20mA feedback). These kinds of limit switch box were designed through advance and state-of-the-art engineering technology which have the product to be solid, beautiful and with high-level quality. The product also fully meets IP specifications and the bracket is designed in light of ISO5211 and NAMUR standard.

The model of CNK -330N is smart limit switch box in which Electronic Position Transmitter is designed and assembled for Industry Automation which senses mechanical position change of stem being on the valve or similar device and converses to current signal of DC 4~20mA outputs for computers or Industry Processing Control System It is flame proof type attached internally.



- Aluminum die-casting housing and powder coated
- Secure waterproof, multi-angles visual valve positions involving top and side view
- Spring loaded splinted cam. No need to adjust again after initial setting and Easy setting without tool
- Standard 8 points and enough strips for connection (10 points for optional)
- Dual cable entries: 2×G1/2 (Standard) and 2-M20×1.5, 2X1/2NPT (Optional)
- No worry to loose bolts while cover opens with captive cover bolts
- NAMUR standard steel plate or stainless steel (optional) shaft and bracket
- Weather proof is IP67.
- 2-SPDT mechanical switches as standard(0.6A125VDC,0.3A250VDC,15A1/2HP 125/250VAC) and Proximity sensors as option (P16AM-D3N:8~30VDC,<=150mA or P&F sensors NJ2-V3-N:8VDC,Detected<=1mA,Not detected>=3mA)

Structure and Material



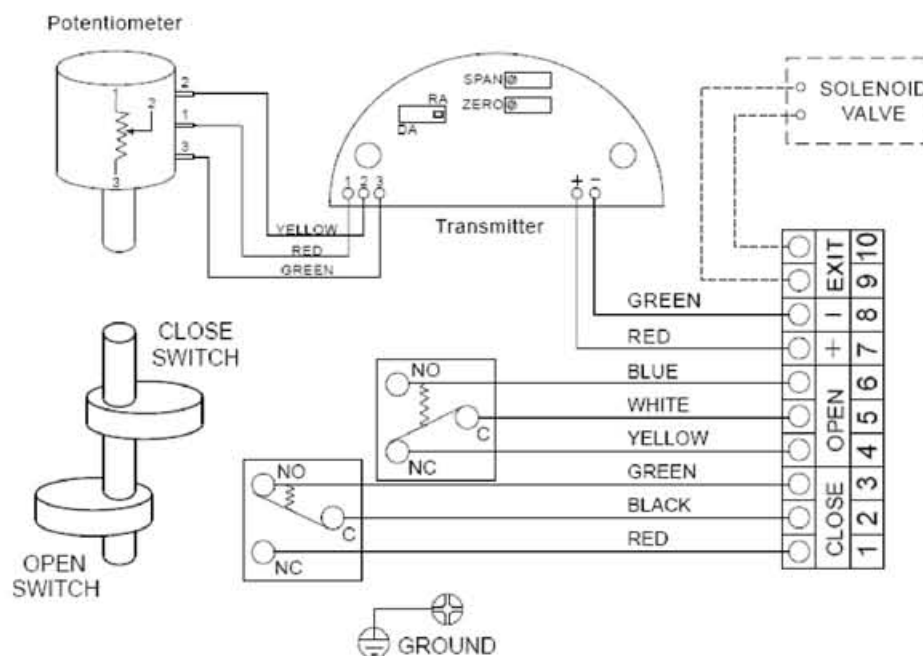
No.	Part Name	Qty.	Material/Spec.
1	Box Cover	1	Aluminum Die Casting
2	Box Body	1	Aluminum Die Casting
3	Shaft	1	Stainless Steel
4	Indicator Cover	1	Polycarbonate
5	Indicator	1	ABS/Polycarbonate
6	Limit Switch	2	Mechanical (Proximity Sensor)
7	Position Transmitter	1	PCB
8	Potentiometer	1	5K ohm(3600 degree)
9	Gears	2	Bronze
10	Terminal Strip	8	Polycarbonate Tin Plated Brass Stainless Steel
11	Cam	2	Polycarbonate
12	Spring	1	Stainless Steel
13	Cover Bolts	4	Stainless Steel
14	Shaft O-ring	2	NBR
15	Housing O-ring	1	NBR
16	Indicator O-ring	1	NBR
17	Bushing	2	Bronze
18	Earth Lug	1	Stainless Steel
19	E-ring	2	Stainless Steel

Specification

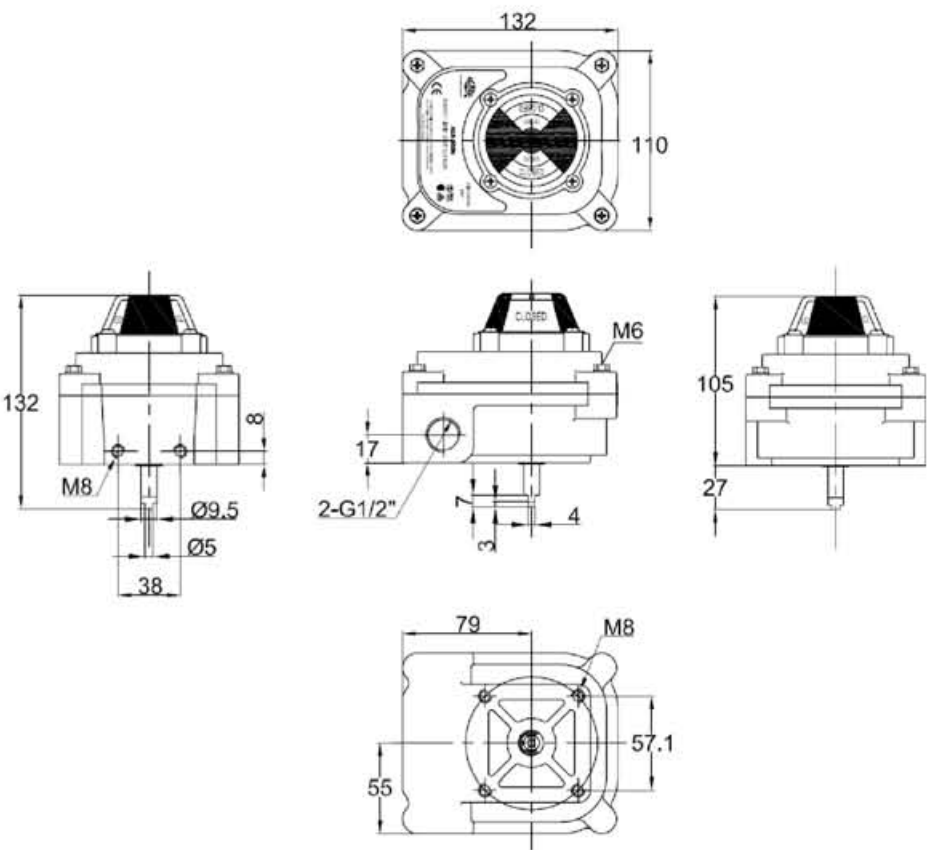
Limit switch Box (CNK-330N)		Position Transmitter(PT)	
Description	Technical Data	Description	Technical Data
Weather proof	IP67	Input type	2Wire
Temperature Range	-20? ~ 85?	Input Signal	0° ~ 90°
Cable Entry	2×G1/2 (2-M20×1.5, 2×1/2NPT)	Output Signal	4-20mA DC
Terminal Strips	8 Points (9~10 Points)	Load Resistance	0~600 Ohm
Position Indicator	0°90° Open-Yellow Close-Red	Noise Range	50mVp.p
Switches	Mechanical (Proximity Sensor)	Adjustable Range	Zero : ±10% Span : 60~110%
Potentiometer	5K ohm	Protection	IP66
Multiview visual position Indicator: multi-angles visual valve positions involving top and side view.		Linearity	±1%
		Sensitivity	±0.2%
		Hysteresis	0.002
		Supply Voltage	15~30V DC
		Explosion Proof	Non-Explosion

Wiring

WIRING DIAGRAM



Dimension



Model	Picture	Material	Application
MB-3.3		Steel plate	30X80(130) H:20~30
		Stainless steel	