



CNK 320 N Limit Switch Boxes (Proximity Sensor)



- 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.
- As for CNK-320N Limit Switch Box, two kind of inductive proximity switches can be assembled. One (CNK-320Ni) is NAMUR standard inductive proximity switch (NJ2-V3-N, 2wires) which is explosive proof one. Another (CNK-320N) is 3 wires inductive proximity switch (P16AM-D3N).

Structure and Material

No.	Part Name	Qty.	Material	Picture
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	Proximity Sensor	
7	Terminal Strip	8	Polycarbonate	
8	Cam	2	Tin Plated Brass	
9	Spring	1	Stainless Steel	
10	Cover Bolts	4	Stainless Steel	
11	Shaft O-ring	2	NBR	
12	Housing O-ring	1	NBR	
13	Indicator O-ring	1	NBR	
14	Bushing	2	Bronze	
15	Earth Lug	1	Stainless Steel	
16	E-ring	2	Stainless Steel	



Limit Switch Box Specification

Model	Weather proof	Explosive Proof	Temperature Range	Cable Entry	Terminal Strips	Position Indicator	Switches
CNK-320N	IP67	no	-20°C ~85°C	2×G1/2 (2-M20×1.5 2×1/2NPT)	8 Points (8~10 Points)	0.90° Open-Yellow Close-Red	P16AM-D3N (8~30VDC, <=150mA)
CNK-320Ni	IP67	Exia IICT6	-20°C~85°C	2×G1/2 (2-M20×1.5 2×1/2NPT)	8 Points (8~10 Points)	0.90° Open-Yellow Close-Red	NJ2-V3-N (8VDC, Detected<=1mA, Not detected>=3mA)

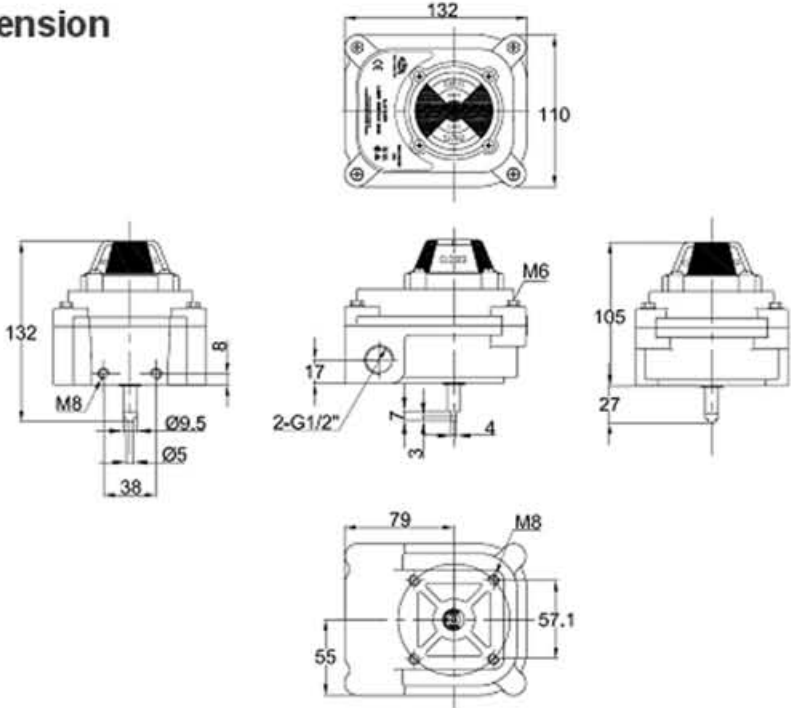
Inductive Proximity Switch Specifications

Model	P16AM-D3N	NJ2-V3-N
Switching element function	NO	NAMUR NC
Rated operating distance	3mm	2mm
Output type	3-wire	2-wire
Installation	Embeddable	Embeddable
Nominal voltage	8-30VDC	8VDC
Switching frequency	0~500Hz	0~1000Hz
Reverse polarity protection	all connections	-
Short-circuit protection	pulsing	-
Voltage drop	less than 1V	-
Operating current	<=150mA	-
Current Consumption (Detected)	-	≤1mA
Current Consumption (Not Detected)	-	≥3mA
Ambient temperature	-25°C ~ +70°C	-25°C ~ +100°C
Connection type	0.1m , PVC cable	0.1m , PVC cable
Core cross-section	0.14 mm ²	0.14 mm ²
Housing material	PBT	PBT
Sensing face	PBT	PBT

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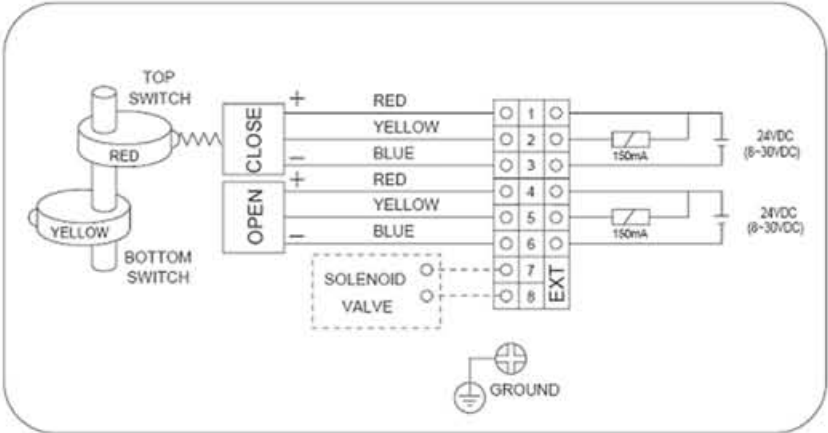
Protection degree	IP67	IP67
Connection type		
picture		

Dimension

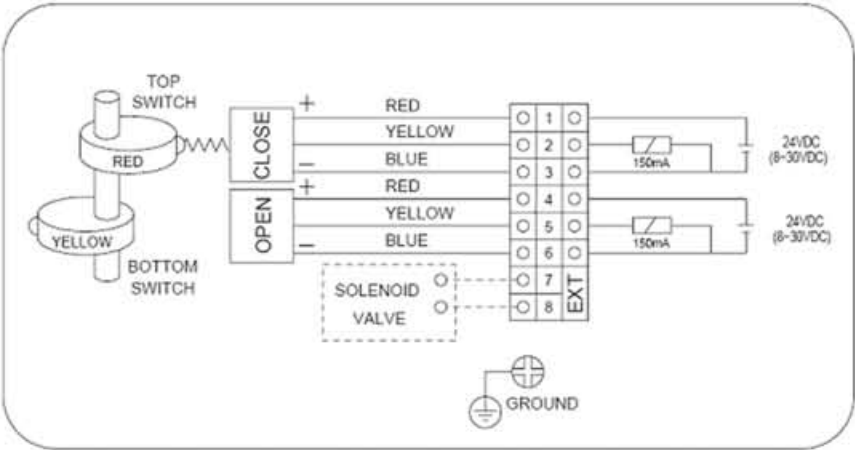


| Wiring (for CNK-320N)

Proximity Switch
(Output Type : NPN)

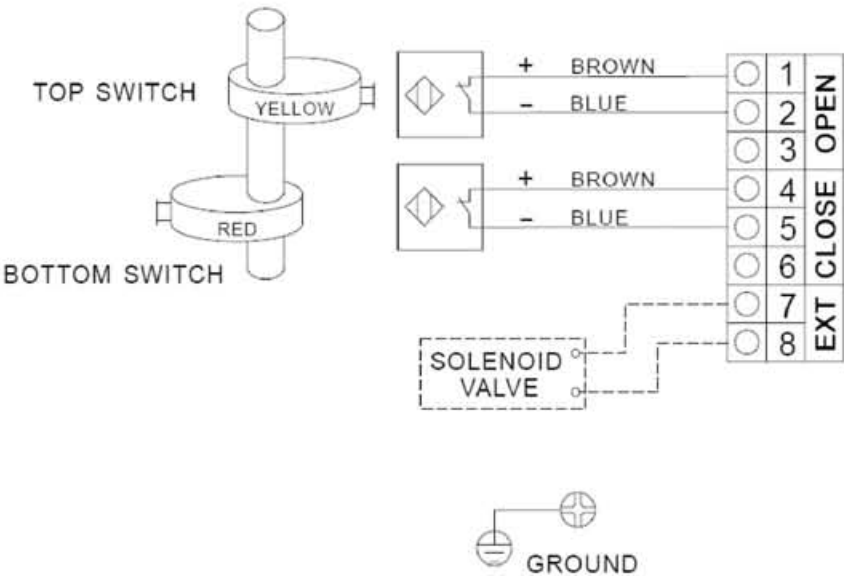


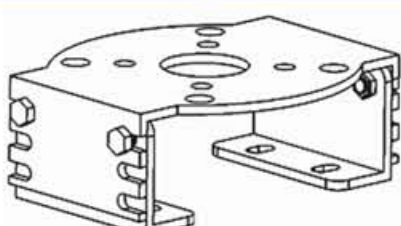
Proximity Switch
(Output Type : PNP)



Wiring (for ALS-320Ni)

PROXIMITY+SWITCH+BOX+WIRING+DIAGRAM
ALS-320N-NJ2-V3-N



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