

 Sensor/Encoder • Proximity sensor • Inductive

Round type proximity sensor



- Applied exclusive IC for C-MOS
- Wide range of power supply voltage(5-35 V DC : DC 3 wire type)
- Internal noise enhanced circuit
- Applied the 2 wire type proximity none polarity

Product Description



Inductive D.C 3 Wire type							
Model	NPN	UP8RM-1.5N	UP8RD-2N	UP12RM-2N	UP12RD-4N	UP18RM-5N	UP18RD-8N
	PNP	UP8RM-1.5P	UP8RD-2P	UP12RM-2P	UP12RD-4P	UP18RM-5P	UP18RD-8P
	Size	M8		M12		M18	
Shield	Shield	Shield	None shield	Shield	None shield	Shield	None shield
Standard sensing object (mm)	Iron 8 X 8 X 1		Iron 12 X 12 X 1		Iron 18X18X1		Iron 25 X 25 X 1
Sensing distance	1.5 mm	2 mm	2 mm	4 mm	5 mm	8 mm	
Setting distance	0 ~ 1.2 mm	0 ~ 1.6 mm	0 ~ 1.6 mm	0 ~ 3.2 mm	0 ~ 4 mm	0 ~ 6.4 mm	
Hysteresis	Less than 10% of sensing distance						
Response frequency	800 Hz		800 Hz	600 Hz	500 Hz	350 Hz	
Power supply voltage	12 ~ 24 V d.c (Usable voltage range 5 - 35V d.c)						
Control output	Open/Close capacitance : 200 mA Max. (Resistive load), Residual voltage : Max 1.5 V						

Current consumption		Max 6 mA					
Operation indication		Red LED					
Protective circuit		Power reversely comeded prodective circuit, surge prote ctive circuit and over current protective circuit are built in.					
connection structure		Cable type (standard cable length 2m), Relay connector type, Connector type					
Material		Case: stainless, Sensing surface: PBT, Cable holder: Polyester elastomer			Case: brass(chrome plating), Sensing surface: PBT, Cable holder: Polyester elastomer		
Weight	Cable type	approx. 60g	approx. 60g	approx. 70g	approx. 70g	approx. 120g	approx. 120g
	Relay connector type	None	None	approx. 30g	approx. 30g	approx. 80g	approx. 80g
	Connector type	None	None	approx. 30g	approx. 30g	approx. 60g	approx. 60g

Inductive D.C 3 Wire type							
Model	NPN	UP18RLM-5N	UP18RLD-8N	UP30RM-10N	UP30RD-15N	UP30RLM-10N	UP30RLD-15N
	PNP	UP18RLM-5P	UP18RLD-8P	UP30RM-10P	UP30RD-15P	UP30RLM-10P	UP30RLD-15P
	Size	M18		M30		M30	
Shield		Shield	None shield	Shield	None shield	Shield	None shield
Standard sensing object (mm)		Iron 18 X 18 X 1	Iron 25 X 25 X 1	Iron 30 X 30 X 1	Iron 45 X 45 X 1	Iron 30 X 30 X 1	Iron 45 X 45 X 1
Sensing distance		5 mm	8 mm	10 mm	15 mm	10 mm	15 mm
Setting distance		0 ~ 4 mm	0 ~ 6.4 mm	0 ~ 8 mm	0 ~ 12 mm	0 ~ 8 mm	0 ~ 12 mm
Hysteresis		Less than 10% of sensing distance					
Response frequency		500 Hz	350 Hz	300 Hz	200 Hz	300 Hz	200 Hz
Power supply voltage		12 ~ 24 V d.c (Usable voltage range 5 – 35V d.c)					
Control output		Open/Close capacitance : 200 mA Max. (Resistive load), Residual : Max1.5 V					

Current consumption		Max 6 mA					
Operation indication		Red LED					
Protective circuit		Power reversely connected protective circuit, Surge protective circuit and over current protective circuit are built in.					
connection structure		Cable type (standard cable length 2m), Relay connector type, Connector type					
Material		Case : brass(chrome plating), Sensing surface: PBT, Cable holder: Polyester elastomer					
Weight	Cable type	approx. 140g	approx. 140g	approx. 170g	approx. 170g	approx. 220g	approx. 220g
	Relay connector type	approx. 100g	approx. 100g	approx. 130g	approx. 130g	approx. 180g	approx. 180g
	Connector type	approx. 80g	approx. 80g	approx. 150g	approx. 150g	approx. 200g	approx. 200g

Inductive D.C 2 wire type (Polarity/No polarity)

Model	Polarity	UP8RM-1.5T	UP8RD-2T	UP12RM-2T	UP12RD-4T	UP18RM-5T	UP-18RD-8T
	Non Polarity	UP8RM-1.5U	UP8RD-2U	UP12RM-2U	UP12RD-4U	UP18RM-5U	UP-18RD-8U
	Size	M8		M12		M18	
Shield		Shield	None shield	Shield	None shield	Shield	None shield
Standard sensing object (mm)		Iron 8 X 8 X 1		Iron 12 X 12 X 1		Iron 18X18X1	Iron 25X25X1
Sensing distance		1.5 mm	2 mm	2 mm	4 mm	5 mm	8 mm
Setting distance		0 ~ 1.2 mm	0 ~ 1.6 mm	0 ~ 1.6 mm	0 ~ 3.2 mm	0 ~ 4 mm	0 ~ 6.4 mm
Hysteresis		Less than 10% of sensing distance					
Response frequency		800 Hz		800 Hz	400 Hz	800 Hz	600 Hz
Power supply voltage		12 ~ 24 V d.c (Usable voltage range 5 - 30 V d.c)					
Control output		Open/Close capacitance : 100 mA Max.(Resistive load), Residual voltage: T (polarity) : max 3.5 V, U (No polarity): max5V					
Leakage current		Max 1 mA					

Operation indication		Red LED			
Protective circuit		Power reversely connected protective circuit, surge protective circuit and over current protective circuit are built in.			
connection structure		Cable type(standard cable length 2 m), Relay connector type, Connector type			
Material		Case: stainless, Sensing surface:PBT, Cable holder: Polyester elastomerr	Case: brass(chrome plating), Sensing surface: PBT, Cable holder: Polyester elastomer		
Weight	Cable type	approx. 60g	approx. 70g	approx. 120g	approx. 120g
	Relay connector type	None	approx. 30g	approx. 80g	approx. 80g
	Connector type	None	approx. 30g	approx. 60g	approx. 60g

Inductive D.C 2 wire type

Model	Polarity	UP18RLM-5T	UP18RLD-8T	UP30RM-10T	UP30RD-15T	UP30RLM-10T	UP30RLD-15T
	Non Polarity	UP18RLM-5U	UP18RLD-8U	UP30RM-10U	UP30RD-15U	UP30RLM-10U	UP30RLD-15U
	Size	M18		M30		M30	
Shield		Shield	None shield	Shield	None shield	Shield	None shield
Standard sensing object (mm)		iron 18 X 18 X 1	iron 25 X 25 X 1	iron 30 X 30 X 1	iron 45 X 45 X 1	iron 30 X 30 X 1	iron 45 X 45 X 1
Sensing distance		5 mm	8 mm	10 mm	15 mm	10 mm	15 mm
Setting distance		0 ~ 4 mm	0 ~ 6.4 mm	0 ~ 8 mm	0 ~ 12 mm	0 ~ 8 mm	0 ~ 12 mm
Hysteresis		Less than 10% of sensing distance					
Response frequency		500 Hz	350 Hz	300 Hz	200 Hz	300 Hz	200 Hz
Power supply voltage		12 ~ 24 V d.c (Usable voltage range 5 – 30 V d.c)					
Control output		Open/Close capacitance : 100 mA Max. (Resistive load), Residual voltage: T(Polarity) : max 3.5 V, U(No polarity) :max 5 V					
Leakage current		Max 1 mA					

Operation indication		Red LED			
Protective circuit		Power reversely connected protective circuit, surge protective circuit and over current protective circuit are built in.			
connection structure		Cable type(standard cable length 2 m), Relay connector type, Connector type			
Material		Case: brass(chrome plating), Sensing surface: PBT, Cable holder : Polyester elastomer			
Weight	Cable type	approx. 140g	approx. 140g	approx. 170g	approx. 220g
	Relay connector type	approx. 100g	approx. 100g	approx. 130g	approx. 180g
	Connector type	approx. 80g	approx. 80g	approx. 110g	approx. 200g

Inductive A.C 2 wire type						
Model	For A.C	UP12RM-2A	UP12RD-4A	UP18RM-5A	UP18RD-8A	UP18RLM-5A
	Size	M12		M18		M18
Shield		Shield	None shield	Shield	None shield	Shield
Standard sensing object (mm)		Iron 12 x 12 x 1 mm		Iron 18 x 18 x 1 mm	Iron 25 x 25 x 1 mm	Iron 18 x 18 x 1 mm
Sensing distance		2 mm	4 mm	5 mm	8 mm	5 mm
Setting distance		0 ~ 1.6 mm	0 ~ 3.2 mm	0 ~ 4.0 mm	0 ~ 6.4 mm	0 ~ 4.0 mm
Hysteresis		Less than 10% of sensing distance				
Response frequency		20 Hz				
Power supply voltage		100 ~ 240 V a.c(Usable voltage range 90 - 250 V a.c)				
Control output		Open/Close capacitance : 200 mA Max. (Resistive load), Residual voltage: Max 10 V				
Leakage current		Max 2.2 mA				
Operation indication		Red LED				
Protective circuit		Surge Protective circuit built in.				
connection structure		Cable type(standard cable length 2 m), Relay connector type, Connector type				

Material		Case: brass (chrome plating), Sensing surface:PBT, Cable holder :Polyester elastomer			
Weight	Cable type	approx. 70g	approx. 70g	approx. 120g	approx. 140g
	Relay connector type	approx. 30g	approx. 30g	approx. 80g	approx. 100g
	Connector type	approx. 30g	approx. 30g	approx. 60g	approx. 80g

Inductive A.C 2 wire type

Model	For A.C	UP18RLD-8A	UP30RM-10A	UP30RD-15A	UP30RLM-10A	UP30RLD-15A
	Size	M18	M30		M30	
Shield		None shield	Shield	None shield	Shield	None shield
Standard sensing object (mm)		Iron 25 x 25 x 1 mm	Iron 30 x 30 x 1 mm	Iron 45 x 45 x 1 mm	Iron 30 x 30 x 1 mm	Iron 45 x 45 x 1 mm
Sensing distance		8 mm	10 mm	15 mm	10 mm	15 mm
Setting distance		0 ~ 6.4 mm	0 ~ 8.0 mm	0 ~ 12.0 mm	0 ~ 8.0 mm	0 ~ 12.0 mm
Hysteresis		Less than 10% of sensing distance				
Response frequency		20 Hz				
Power supply voltage		100 ~ 240 V a.c.(Usable voltage range 90 – 250 V a.c)				
Control output		Open/Close capacitance : 200 mA Max. (Resistive load), Residual voltage: Max 10 V				
Leakage current		Max 2.2 mA				
Operation indication		Red LED				
Protective circuit		Surge Protective circuit built in.				
connection structure		Cable type(standard cable length 2 m), Relay connector type, Connector type				
Material		Case: brass (chrome plating), Sensing surface:PBT, Cable holder :Polyester elastomer				
Weight	Cable type	approx. 140g	approx. 170g	approx. 170g	approx. 220g	approx. 220g
	Relay	approx.	approx. 130g	approx.	approx. 180g	approx. 180g

	connector type	100g		130g		
	Connector type	approx. 80g	approx. 150g	approx. 150g	approx. 200g	approx. 200g

[ver. PC ▶](#) [KOREAN](#) [TOP ▲](#)

Copyright © 2012 HANYOUNGNUX. All Rights Reserved. For more informaion webmaster.