

UP25F

Flat proximity sensor



h Suffix code

Category	Code						Description
UP	<input type="checkbox"/>	High-frequency oscillating proximity sensor					
Sensor face size	25						Refer to external dimensions (25.7 × 49.0 × 10.5)
Exterior structure		F					Flat type
Sensing distance			8				8 mm
Power and output type				N			DC NPN output
				P			DC PNP output
				A			AC 2-wire
				T			DC 2-wire (polarized)
				U			DC 2-wire (non-polarized)
Output status					A		Normally open (NO)
					C		Normally Closed (NC)
Connecting structure							No indication (cable type)
						CR	Connector cable type

■ High-frequency oscillating DC 3-wire/2-wire

Model	DC 3-wire		DC 2-wire	
	NPN	UP25F-8N□□	Polarized	UP25F-8T□□
	PNP	UP25F-8P□□	Non-polarized	UP25F-8U□□
Exterior				
Standard target (mm)	Ferrous metal (25 X 25 X 1)			
Sensing distance	8 mm			
Set distance	0 to 6.4 mm			
Hysteresis	10% of the sensing distance or less			
Response frequency	200 Hz			
Power voltage	12 - 24 V d.c. (Operating voltage range: 5 - 35 V d.c.)		12 - 24 V d.c. (Operating voltage range: 10 - 30 V d.c.)	
Control output	200 mA max. (resistive load)		100 mA max. (resistive load)	
Residual voltage	1.5 V or lower		Polarized: 3.5 V or lower, Non-polarized: 5 V or lower	
Current consumption	6 mA or lower		-	
Leakage current	-		1 mA or lower	
Operation indicator	Red LED			
Protection circuit	Built-in reverse power protection circuit, surge protection circuit, and overcurrent protection circuit		Built-in surge protection circuit, overcurrent protection circuit	
Ambient temperature/humidity	-25 to 70 °C (±10% of the sensing distance or less at 20 °C), 35 to 85% RH			
Insulation resistance	50 MΩ or higher (500 V d.c. in megaohms); between all terminals and the CASE			
Dielectric strength	2,000 V a.c. 1 minute at 50/60 Hz (between all terminals and the CASE)			
Vibration resistance	10 - 55 Hz (1 minute interval, double amplitude: 1.5 mm, 2 hours in each direction X, Y, Z)			
Shock resistance	500 m/s ² , 3 times in each direction X, Y, Z			
Protective structure	IP67 (IEC 60529)			
Connecting structure	Cable type (standard cable length: 2 m), Connector cable type			
Color	•Polarized: Green •Non-polarized: Navy			
Material	•Case: PBT •Cable holder: Polyester elastomer			
Weight	Cable type	60 g		60 g
	Connector cable type	20 g		20 g

■ High-frequency oscillating AC 2-wire

Model		UP25F-8A□□
Exterior		
Standard target (mm)		Ferrous metal (25 X 25 X 1)
Sensing distance		8 mm
Set distance		0 to 6.4 mm
Hysteresis		10% of the sensing distance or less
Response frequency		20 Hz
Power voltage		100 - 240 V a.c. 50 - 60 Hz (Operating voltage range: 90 - 250 V a.c. 50 - 60 Hz)
Control output		200 mA max. (resistive load)
Residual voltage		10 V a.c. or lower
Leakage current		2.2 mA or lower
Operation indicator		Red LED
Protection circuit		Built-in surge protection circuit
Ambient temperature/humidity		-25 to 70 °C (±10% of the sensing distance or less at 20 °C), 35 to 85% RH
Insulation resistance		50 MΩ or higher (500 V d.c. in megaohms); between all terminals and the CASE
Dielectric strength		2,000 V a.c. 1 minute at 50/60 Hz (between all terminals and the CASE)
Vibration resistance		10 - 55 Hz (1 minute interval, double amplitude: 1.5 mm, 2 hours in each direction X, Y, Z)
Shock resistance		500 m/s ² , 3 times in each direction X, Y, Z
Protective structure		IP67 (IEC 60529)
Connecting structure		Cable type (standard cable length: 2 m), Connector cable type
Color		•NO: Green •NC: Navy
Material		•Case: PBT •Cable holder: Polyester elastomer
Weight	Cable type	60 g
	Connector cable type	20 g