

High precision sensor amplifier V5FM-E21/E21M/E25

■ Highlights

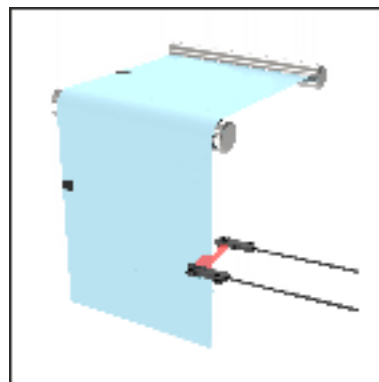
- One key setting
MEGA mode, The ultimate goal is to reduce the user's manual time in maintenance and setup.
- Super functional combination;
Automatic optical gain, count, zero shift, percentage, anti-interference, zone DTM, NO/NC interchange, time delay and other functions.
- Four application modes can be selected flexibly;
(MEGA\SUPER\FINE\HIGH SPEED) ;
- Max. 100μs high speed;
Reverse electrode, over-voltage and over-current protection.
- Stable performance, super cost performance.



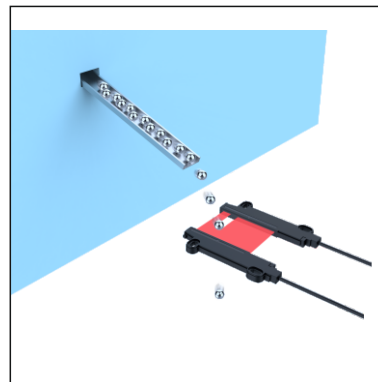
■ Applications



Detect the front and back of LED



Detect the offset of packaging materials



Accurate detection and counting detection of small objects in 40mm detection area

■ Product parameters

Type		Single outpu	Dual switching output	Analog output
Model	NPN	V5FM-E21N	V5FM-E25N	V5FM-E21MN
	PNP	V5FM-E21P	V5FM-E25P	V5FM-E21MP
Light source		Red LED		
Reaction time		Anti oFF: 100μs(HIGH SPEED) / 250μs(FINE) / 1ms(SUPER) / 8ms(MEGA) Anti on: 300μs(HIGH SPEED) / 500μs(FINE) / 2ms(SUPER) / 16ms(MEGA) Anti stAG: (S1, S2, S3, S4) 1ms		
Output selection		LIGHT-ON/DARK-ON		
Detection mode		Light intensity (area detection, automatic sensitivity tracking function)		
Delay function		Off delay timer / on delay timer / single time timer		
Control output		Open collector: 24 VDC, maximum output: 100mA, residual voltage: 1V		Open collector circuit: 24 VDC, maximum output value: 100 Ma, residual voltage: 1.5 V maximum
Power		Between 12 and 24VDC ± 10%, the fluctuation ratio (P-P) : max.10%.		
Current consumption	NPN	Normal: max.900mW(when 24V, max.20mA;when 12V:max.40mA) Energy saving mode: max.800mW(when 24V, max.18mA;when 12V:max.36mA)		
	PNP	Normal: max.950mW(when 24V, max.20mA;when 12V:max.40mA) Energy saving mode: max.850mW(when 24V, max.18mA;when 12V:max.36mA)		
Ambient temperature/humidity		-20 to +55℃ (no freezing) / 35 to 85%RH (no condensing)		
Vibration resistance		10 to 55Hz, complex amplitude 1.5mm, each 2 hours for X/Y/Z axis		
Impact resistance		500 m/s², each 3 times for X/Y/Z axis		
Material		Polycarbonate		
Dimensions		30.3mm(H)X9.8mm(W)X71.8mm(D)		
Weight		Approx. 85g		

■ Product functionality

Type	appearance	Specification and model		switching output	Analog output
		NPN	PNP		
single switching output		V5FM-E21	V5FM-E21P	1	0
Dual switching output		V5FM-E25	V5FM-E25P	2	0
Analog and switching output		V5FM-E2MN	V5FM-E21MP	1	1

■ One key setting



■ Product size

