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# AE3F-DS50P1

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(<https://www.omchsmpls.com/product-category/diffuse-photoelectric-sensor/>) / AE3F-DS50P1

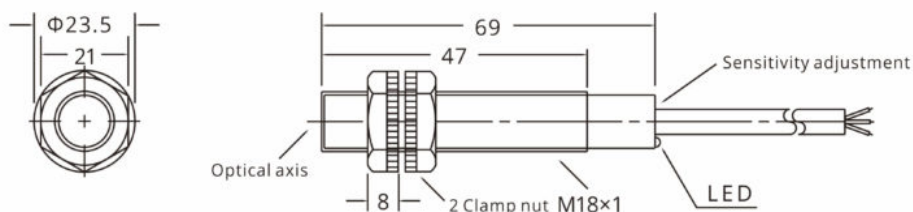
类别 Diffuse Photoelectric Sensor (<https://www.omchsmpls.com/product-category/diffuse-photoelectric-sensor/>)

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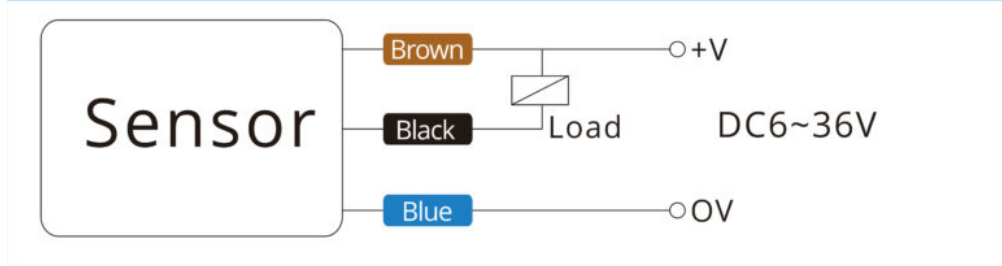
Type and Specification	
Type	Round type
Dimension	M18*1

Type and Specification		
DC type	NPN NO	AE3F-DS50N1
	NPN NC	AE3F-DS50N2
	NPN NO+NC	AE3F-DS50N3
	PNP NO	AE3F-DS50P1
	PNP NC	AE3F-DS50P2
	PNP NO+NC	AE3F-DS50P3
AC type	AC NO	AE3F-DS50A1
	AC NC	AE3F-DS50A2
Detection range	10-50cm±10%	
Detection target	Transparent/opaque object	
Detection range regulation	Sensitivity controller	
Response time	1ms	
Connection delay	1.5ms	
Light source	Infrared light 660nm	
Power supply	DC type: DC 12-24V (6-36V), impulse (p-p) 10% below; AC type: AC 110-220V (90-250V) 50/60Hz	
Withstand voltage	AC1000V 50/60Hz 1min between charging part and housing	
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value, inside ±10% detection distance	
Consumption current	N/P type: ≤20mA, A type: ≤1.7mA	
Control output	N/P type: ≤200mA, A type: ≤200mA,	
Loop protection	N/P/D type: reversal connection protection, surge absorption, load short-circuit protection, A type: surge absorption	
Ambient temperature & humidity	Operation temperature/storage temperature: -30~65°C (no freeze, no dew); Operation humidity/storage humidity: 35~95%RH	
Temperature influence	Temperature range -30~65°C, at +23°C, ±15% detection distance; Temperature range -25~60°C, at +23°C, ±10% detection distance	
Insulation impedance	≥50MΩ (DC500 megameter) between charging part and housing	
Material	Housing: Nickel plated brass (ABS), Detection surface (lens): PMMA	
Protection class	IP67	
Cable length	2m	



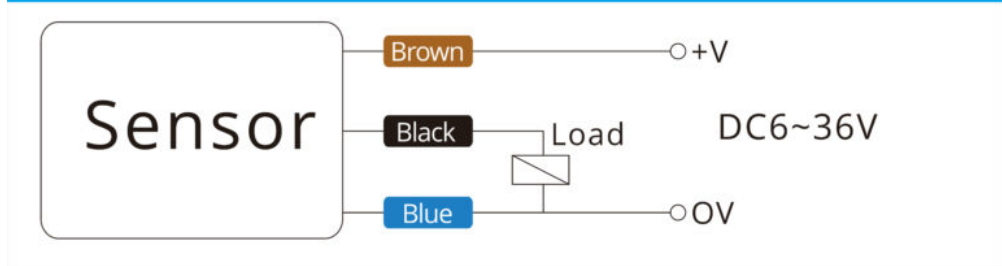
# AE3F-DS50N1/N2

## 1. DC 3-Wire NPN models NO or NC



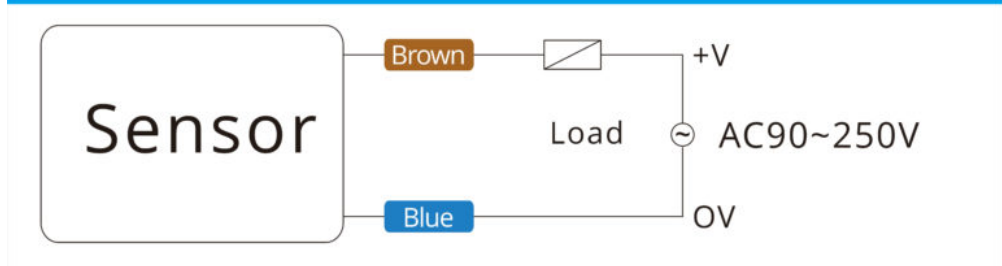
# AE3F-DS50P1/P2

## 2. DC 3-Wire PNP models NO or NC



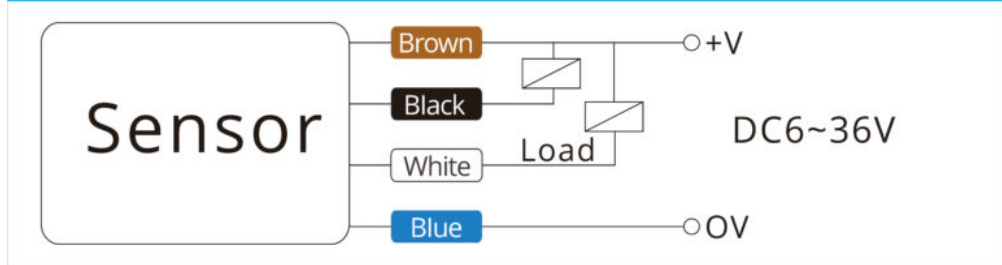
# AE3F-DS50A1/A2

## 4. AC 2-Wire models NO or NC



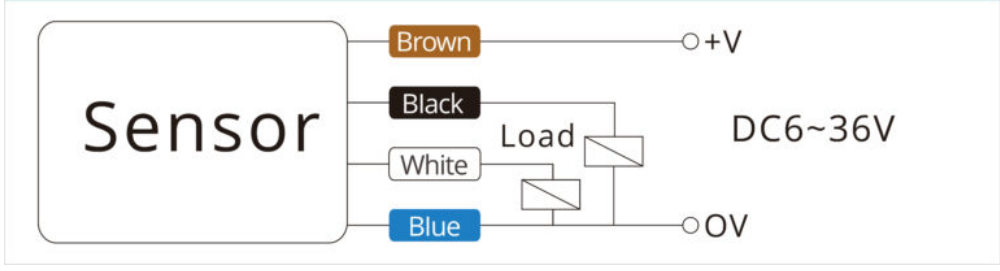
# AE3F-DS50N3

## 5. DC 4-Wire NPN models NO or NC



# AE3F-DS50P3

## 6.DC 4-Wire PNP models NO or NC



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**BEN300-DFR**

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