



**Features**

- Reverse power polarity protection (DC)  
Surge protection function.
- Over current protection function.
- Long life cycle and high reliability.
- Able to check the status of operation  
by Red LED indicator.
- Wide range of applications, for replacement  
of Micro switch, Limit switch.
- Structure by IP 65.

**Specifications (DC 2 wire type)**

Model	AIR8-TN1.5F	AIR8-TN2N	AIR12-TN2F	AIR12-TN4N	AIR18-TN5F	AIR18-TN10N	AIR30-TN10F	AIR30-TN18N
Switching	NO	NC	NO	NO	NO	NO	NO	NO
Sensing distance Sn	1.5mm	2mm	2mm	4mm	5mm	8mm	10mm	15mm
Response frequency	1.5kHz	800Hz	800Hz	400Hz	400Hz	200Hz	200Hz	100Hz
Mounting	Flush mountable	Non flush mountable	Flush mountable	Non flush mountable	Flush mountable	Non flush mountable	Flush mountable	Non flush mountable
Voltage drop	max 1.5VDC							
Output current	3~100mA							
Supply voltage	6~36VDC (10~30VDC)							

**Specifications (DC 3 wire type)**

Model	AIR8-PN1.5F	AIR8-PN2N	AIR12-PN2F	AIR12-PN5N	AIR18-PN5F	AIR18-PN10N	AIR30-PN10F	AIR30-PN18N
	M8, PNP, NO, Flush	M8, PNP, NO, Non flush	M12, PNP, NO, Flush	M12, PNP, NO, Non flush	M18, PNP, NO, Flush	M18, PNP, NO, Non flush	M30, PNP, NO, Flush	M30, PNP, NO, Non flush
	AIR8-NN1.5F	AIR8-NN2N	AIR12-NN2F	AIR12-NN5N	AIR18-NN5F	AIR18-NN10N	AIR30-NN10F	AIR30-NN18N
	M8, NPN, NO, Flush	M8, NPN, NO, Non flush	M12, NPN, NO, Flush	M12, NPN, NO, Non flush	M18, NPN, NO, Flush	M18, NPN, NO, Non flush	M30, NPN, NO, Flush	M30, NPN, NO, Non flush
AIR8-PC1.5F	AIR8-PC2N	AIR12-PC2F	AIR12-PC5N	AIR18-PC5F	AIR18-PC10N	AIR30-PC10F	AIR30-PC18N	
M8, PNP, NC, Flush	M8, PNP, NC, Non flush	M12, PNP, NC, Flush	M12, PNP, NC, Non flush	M18, PNP, NC, Flush	M18, PNP, NC, Non flush	M30, PNP, NC, Flush	M30, PNP, NC, Non flush	
AIR8-NC1.5F	AIR8-NC2N	AIR12-NC2F	AIR12-NC5N	AIR18-NC5F	AIR18-NC10N	AIR30-NC10F	AIR30-NC18N	
M8, NPN, NC, Flush	M8, NPN, NC, Non flush	M12, NPN, NC, Flush	M12, NPN, NC, Non flush	M18, NPN, NC, Flush	M18, NPN, NC, Non flush	M30, NPN, NC, Flush	M30, NPN, NC, Non flush	
Sensing distance Sn	1.5mm	2mm	2mm	4mm	5mm	8mm	10mm	15mm
Response frequency	1.5kHz	800Hz	800Hz	400Hz	400Hz	200Hz	200Hz	100Hz
Mounting	Flush mountable	Non flush mountable	Flush mountable	Non flush mountable	Flush mountable	Non flush mountable	Flush mountable	Non flush mountable
Hysteresis	Within 1%-10% of sensing distance							
Standard detecting target	8×8×1mm (Iron)		12×12×1mm (Iron)		18×18×1mm (Iron)		30×30×1mm (Iron)	
Voltage	Supply voltage : 6~36VDC (10~30VDC) Voltage drop : max 1.5VDC							
Current	Output current : 300mA No load current : max 10mA at 12VDC							
Temperature influence	When at -25°C ~ 65°C sensing distance within ±15% of sensing distance at rated voltage							
Insulation resistance	50MΩ min. (at 500VDC)							
Dielectric strength	1000VAC, 50/60Hz for 1min							
Vibration resistance	Withstand: 10 to 55Hz, 1.5mm double amplitude for 2 hours each in X, Y, and Z directions							
Shock resistance	Withstand: 500m/s <sup>2</sup> (about 50g) 10 times each in X, Y, and Z directions							
Indicator	Operating Indicator (Red Light)							
Ambient temperature	-25°C to +70°C (non-freezing condition) Storage : -30°C to +80°C (non-freezing condition)							
Ambient humidity	35% to 95%RH							
Protection circuit	Reverse polarity protection, Surge protection circuit, Overload & Short circuit protection							
Protection	as per IP67(IEC specification)							
Connection	Pre wired 2mtr. PVC cable							
Body	Housing- Brass-coated, Surface - Heat-resistance ABS							
Approval	CE							