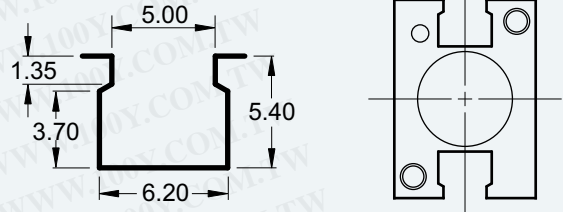


**AL-36 Series can be replaced by AL-39 Series**  
(See Page 43)

### GROOVE DIMENSION (SMC)



## SPECIFICATION

TYPE	AL - 36R	AL - 36RD	AL - 36DF	AL - 36N(P)	AL - 36S
CHARACTERISTIC					
SWITCHING LOGIC	SPST Normally Open	SPST Normally Open	Normally Open	Solid State Output, Normally Open	
SENSOR TYPE	Reed Switch	Reed Switch	2 Wire Solid State	NPN Current Sinking(PNP Current Sourcing)	NPN/PNP Automatic Detection
OPERATING VOLTAGE	5~240V DC/AC	5~30V DC	10~28V DC	5~30V DC	
SWITCHING CURRENT	100 mA Max.	500 mA Max.	50 mA Max.	200 mA Max.	
SWITCHING RATING	10 W Max.	10 W Max.	1.4 W Max.	6 W Max.	
CURRENT CONSUMPTION	—	10 mA Max. @ 24V	12(40) $\mu$ A Max. @ 24V	7.5 mA Max. @ 24V	
VOLTAGE DROP	2.5V Max. @ 100mA DC	0.1V Max. @ 500mA DC	2.65V Max. @ 50mA DC	0.5 V Max. @ 200 mA DC	1 V Max. @ 200 mA DC
LEAKAGE CURRENT	—	—	20(90) $\mu$ A Max. @ 28V	0.01 mA Max.	
INDICATOR	Red LED	Dual Yellow LED	Red LED	Red LED(Green LED)	Red LED
CABLE	2.9 $\phi$ , 2C, Grey Oil Resistat PVC	2.9 $\phi$ , 3C, Black Oil Resistat PVC	2.9 $\phi$ , 2C, Black Oil Resistat PVC	2.9 $\phi$ , 3C, Black Oil Resistat PVC	
SENSITIVITY	35 ~ 45 Gauss	35 ~ 45 Gauss	40 ~ 750 Gauss	40 ~ 750 Gauss	
SWITCHING FREQUENCY	200 Hz	200 Hz	1000 Hz	5000 Hz	
TEMPERATURE RANGE	-10 ~ 70 $^{\circ}$ C	-10 ~ 70 $^{\circ}$ C	-10 ~ 70 $^{\circ}$ C	-10 ~ 70 $^{\circ}$ C	
SHOCK	30 G	30 G	50 G	50 G	
VIBRATION	9 G	9 G	9 G	9 G	
ENCLOSURE CLASSIFICATION	IP 67 (EN60529)	IP 67 (EN60529)	IP 67 (EN60529)	IP 67 (EN60529)	
PROTECTION CIRCUIT	—	—	Surge Suppression	Power Reverse Polarity; Surge Suppression	
CE Certificate NO.	No. E8N 1104 53334 005	No. E8N 1104 53334 005	No. E8N 1104 53334 004	No. E8N 1104 53334 006	Applied
3C Certificate NO.	No. : 2004010305127433	No. : 2004010305127433			
CNEx Certificate NO.	CNEx11.2189X(ExnCIICt6)	CNEx11.2189X(ExnCIICt6)	CNEx11.1436(ExialIBT6)	CNEx11. 1323 (ExialIBT6)	Applied
Connect Diagram					
AL-36R AL-36R-QD8 AL-36R-QD12	AL-36DF AL-36DF-QD8 AL-36DF-QD12	AL-36N(P) AL-36N(P)-QD8 AL-36N(P)-QD12	AL-36RD AL-36RD-QD8 AL-36RD-QD12	<b>M8 &amp; M12 QUICK CONNECTOR</b> (IEC61076-2-101) 2 wire QD wiring M83M M124M 2 wire easy QD wiring  3 wire QD wiring M83M M124M 3 wire easy QD wiring 	

- NOTE: 1. The max. operating voltage of AL-36R-QD8 is 60V AC/DC (Based on IEC61076-2-101).  
 2. Measuring standard target: 15.5 \* 8 \* 5t(Anisotropic Plastic Magnet).  
 3. Sin Wave / X, Y, Z 3 Directions / 3 Times Each Direction / 11mS Each Time.  
 4. Double Amplitude 1.5mm / 10Hz~55Hz~10Hz(Sweep 1min) / X, Y, Z 3 Directions / 1Hour Each Time.  
 5. All trademarks used in this catalog are the property of their respective owners.  
 6. We reserve the right to make changes without notice.



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