



## SPECIFICATION

TYPE	AL - 39R	AL - 39RD	AL - 39DF	AL - 39N(P)	AL - 39S
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.	100 mA Max.
SWITCHING RATING	10 W Max.	10 W Max.	1.4 W Max.	6 W Max.	3 W Max.
CURRENT CONSUMPTION	—	10 mA Max. @ 24V	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	—	—	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 PUR	2.9 $\phi$ , 3C, Black Oil Resistat PUR	2.9 $\phi$ , 2C, Black Oil Resistat PUR	2.9 $\phi$ , 3C, Black Oil Resistat PUR	
SENSITIVITY	35 ~ 45 Gauss	35 ~ 45 Gauss	40 ~ 800 Gauss	40 ~ 800 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.	E8N 11 04 53334 005		No. E8N 1104 53334 004	No. E8N 1104 53334 006	—
3C Certificate NO.	No. : 2004010305127433		—	—	
CNEx Certificate NO.	CNEx16.2333X(ExnCIIT6GC)		CNEx16. 1850 (ExiallBT6Ga)	CNEx16. 1851 (ExiallBT6Ga)	—
Connect Diagram					
AL-39R AL-39R-QD8 AL-39R-QD12 AL-39R-EZ2M	AL-39RD AL-39RD-QD8 AL-39RD-QD12 AL-39RD-EZ3M	AL-39DF AL-39DF-QD8 AL-39DF-QD12 AL-39DF-EZ2M	AL-39N(P) AL-39N(P)-QD8 AL-39N(P)-QD12 AL-39N(P)-EZ3M	<b>M8, M12, EZ QUICK CONNECTOR</b> (IEC61076-2-101) 2 wire QD wiring <b>M83M</b> 4(NC) Brown(+)-1 3-Blue(-) <b>M124M</b> 2(NC) Blue(-)-3 1-Brown(+) 4(NC) <b>EZ2M</b> Blue(-)-2 1-Brown(+) 3 wire QD wiring <b>M83M</b> 4-Black(OUT) Brown(+)-1 3-Blue(-) <b>M124M</b> 2(NC) Blue(-)-3 1-Brown(+) 4-Black(OUT) <b>EZ3M</b> 2-Black(OUT) Blue(-)-3 1-Brown(+) 	

- NOTE: 1. The max. operating voltage of AL-39R-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.  
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