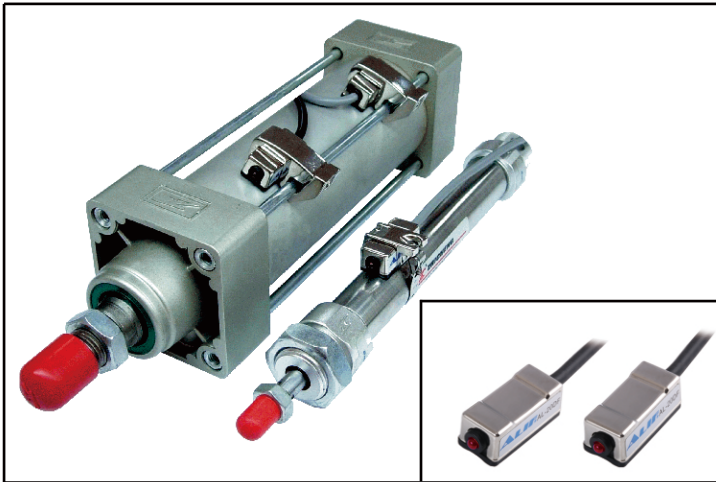


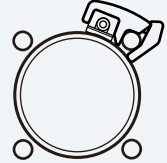


AL-20 Series can be replaced by DFSU, AL-49 Series

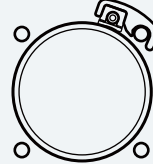
PAB CLAMP (see page 65)



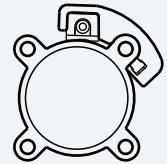
PAC BRACKET (see page 66)



PM BRACKET (see page 66)



PI BRACKET (see page 66)



SPECIFICATION

TYPE	AL - 20R		AL - 20RV		AL - 20DF		AL - 20N(P)		AL - 20S	
CHARACTERISTIC										
SWITCHING LOGIC	SPST Normally Open				Normally Open		Solid State Output, Normally Open			
SENSOR TYPE	Reed Switch				2 Wire Solid State		NPN Current Sinking (PNP Current Sourcing)		NPN/PNP Automatic Detection	
OPERATING VOLTAGE (NOTE 1)	5 ~ 240V DC/AC				10 ~ 28V DC		5 ~ 30V DC			
SWITCHING CURRENT	0 ~ 100 mA		0 ~ 500 mA		1 ~ 50 mA		0 ~ 200 mA			
SWITCHING RATING	10 W Max.				1.4 W Max.		6 W Max.			
CURRENT CONSUMPTION	—				40 μA Max. @ 24V		7.5 mA Max. @ 24V			
VOLTAGE DROP	2.5V Max. @ 100mA DC		0.9V Max. @ 500mA DC		2.65V Max. @ 50mA DC		0.5 V Max. @ 200 mA DC		1 V Max. @ 200 mA DC	
LEAKAGE CURRENT	—				90 μA Max. @ 28V		0.01 mA Max.			
INDICATOR	Red LED		Yellow LED		Red LED		Red LED(Green LED)		Red LED	
CABLE	4.0 ϕ , 2C, Grey Oil-Resistant PVC				4.0 ϕ , 2C, Black Oil-Resistant PVC		4.0 ϕ , 3C, Black Oil-Resistant PVC			
SENSITIVITY (NOTE 2)	55 ~ 65 Gauss				40 ~ 800 Gauss		40 ~ 800 Gauss			
SWITCHING FREQUENCY	200 Hz				1000 Hz		5000 Hz			
TEMPERATURE RANGE	-10 ~ 70 ℃				-10 ~ 70 ℃		-10 ~ 70 ℃			
SHOCK (NOTE 3)	30 G				50 G		50 G			
VIBRATION (NOTE 4)	9 G				9 G		9 G			
ENCLOSURE CLASSIFICATION	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 004		No. E8N 1104 53334 006		—	
3C Certificate NO.	No. : 2004010305127433				—		—			
CNEx Certificate NO.	CNEx16.2333X(ExnCIICT6GC)				CNEx16. 1850 (ExiallBT6Ga)		CNEx16. 1851 (ExiallBT6Ga)		—	
Connect Diagram										
AL-20R(RV) AL-20R(RV)-QD8 AL-20R(RV)-QD12 AL-20R(RV)-EZ2M		AL-20RD AL-20RD-QD8 AL-20RD-QD12 AL-20RD-EZ3M		AL-20DF AL-20DF-QD8 AL-20DF-QD12 AL-20DF-EZ2M		AL-20N(P) AL-20N(P)-QD8 AL-20N(P)-QD12 AL-20N(P)-EZ3M		M8, M12, EZ QUICK CONNECTOR (IEC61076-2-101) 2 wire QD wiring M83M M124M EZ2M 		

NOTE: 1. The max. operating voltage of AL-20R-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.