





## Sensor models applied to JUFAN'S cylinders

Model	Drawing	Applied JUFAN cylinders	
JFS-01		AL	JIS tie rod cylinders ( $\phi 32-\phi 100$ )
		AM	ISO non-tie rod cylinder ( $\phi 32-\phi 200$ )
		FC	large size tie-rod cylinders ( $\phi 125, \phi 400$ )
		SU	JIS miniature cylinders ( $\phi 20-\phi 40$ )
		IU	ISO miniature cylinder ( $\phi 20-\phi 40$ )
		AMGC	ISO6431 guided cylinders ( $\phi 32-\phi 63$ )
		IUGC	ISO6432 guided cylinders ( $\phi 20, \phi 25$ )
		SUGC	( $\phi 20-\phi 50$ )
JFS-01CC		Adapting	1.Can be main tained by non-technical 2.Easy main tenance
JFS-01AA		Front male part	
JFS-01BB		Real female part	
JFS-02		JI	JIS compact cylinders ( $\phi 20-\phi 100$ )
JFS-02CC		AS 1	swivel & clamp pneumatic cylinders ( $\phi 20-\phi 63$ )
		JIGC	JIS compact guided cylinders ( $\phi 20-\phi 100$ )
JFS-03		SU	JIS miniature cylinders ( $\phi 10, \phi 16$ )
		IU	ISO6432 miniature cylinders ( $\phi 10, \phi 12, \phi 16$ )
JFS-04		DR	dual pods cylinders ( $\phi 16-\phi 32$ )
		RT	JIS rotary cylinders ( $\phi 30-\phi 100$ )
		JI	compact cylinders ( $\phi 50-\phi 100$ )
		FG	slide umts ( $\phi 16-\phi 32$ )
		TGC	three rods guided cylinders ( $\phi 25-\phi 63$ )
		MGC	multi-port guided cylinders cylinders ( $\phi 25-\phi 63$ )
		CLP	Gripper
JFS-05		SI	short stroke cylinders ( $\phi 12-\phi 40$ )
		SIGC	si cylinders with flange ( $\phi 12-\phi 40$ )

## Specification of sensors

Model Item	LED Position	Name	Voltage (V)	Current (mA)	Cada- city	Respo- nse time	Conn- ection type	Protect- ion class	LED color	Wire	Inner voltage	Temper- ature	
JFS-01	U (or Space)	Top	Standard	AC4-240 DC4-24	5~300	40 (20)W	ON+ OFF <1ms	Open	IP-67	Green	φ4mm 2C Gray 2m	Max. 2.5V	-10° ± +60°C
	-A	Top	Large current	AC12- 240	0.1~1A	40 (20)VA	ON+ OFF <2ms			Green			
	-B	Top	B connection	DC4-24	5~20	2(1)W	ON+ OFF <1ms	Close	IP-67	Yellow	φ4mm 2C Gray 2m	Max. 2.5V	-10° ± +60°C
	-H	Top	High magn	DC4-24 AC4-240	5~40	6(3)W 8(4)VA				Green			
	-L	Top	Low magn							Green			
	-NPN	Top	3 wrist	DC10-24	OFF:7 ON:16	100MA	ON+ OFF <2ms	Open	IP-67	Red	φ4mm 3C Gray 2m	Max. 1.5V	-10° ± +70°C
	-PNP	Top	3 wrist							Green			
JFS-02	-U (or Space)	Top	Standard	DC4-24 AC4-240	5~40	6(3)W 8(4)VA	ON+ OFF <1ms	Open	IP-67	Red	φ3.3mm 2C Gray 2m	Max. 2.5V	-10° ± +60°C
	-H	Top	High magn										
	-L	Top	Low magn										
	-B	Top	B connection	DC4-24	5~20	2(1)W	ON+ OFF <1ms	Close					
JFS-03	-U	Top	Standard	DC4-24 AC4-240	5~40	6(3)W 8(4)VA	ON+ OFF <1ms	Open	IP-64	Red	φ3.3mm 2C Black 2m	Max. 2.5V	-10° ± +60°C
	-H	Top	High magn	DC4-24 AC4-120									
	-B	Top	B connection	DC4-24	5~20	2(1)W	ON+ OFF <1ms	Close					
JFS-04	-U	Top	Standard	DC4-24 AC4-120	5~40	6(3)W 8(4)VA	ON+ OFF <1ms	Open	IP-67	Red	φ3.3mm 2C Black 2m	Max. 2.5V	-10° ± +70°C
	-PNP	Top	3 wrist	DC4-24	OFF:7mA (24V) ON:16mA (24V)	50MA	ON+ OFF <2ms	Open					
JFS-05	-U	Top	Standard	DC4-24 AC4-120	5~40 Max.50	10(5)W 1.2W	500HZ 1000HZ	Open	IP-67	Red	φ2.8mm 2C Gray	Max. 2.5V	-10° ± +70°C
	-PNP	Top	3 wrist	DC4,5 -30						Max. 1.2V			
	-NPN	Top	3 wrist		Max. 0.5V								

Circuits diagrams

Register / relay

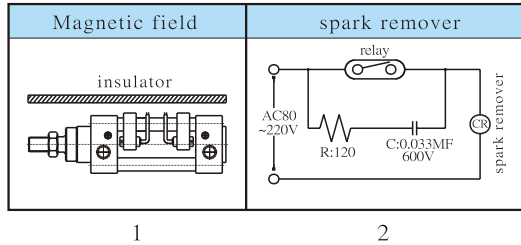
Model	JFS-01U.-01A.-01B.-01H.-01L	<p>Register / relay</p>	
	JFS-02U.-02H.-02L.-02B		
	JFS-03U.-02H.-02L.-02B		
	JFS-03.-03H.-03B		
	JFS-04U		
	JFS-05U		
JFS-06U			
Model	JFS-01PNP.-01NPN	<p>●PNP(3 wire)</p> <p>PNP (3 wire)</p>	<p>●NPN(3 wire)</p> <p>NPN (3 wire)</p>
	JFS-04PNP		
	JFS-06PNP.-06NPN		

PLC Programmable

Model	JFS-01U.-01A.-01B.-01H.01L	<p>PLC Controller (2 Wires)</p>	
	JFS-02U.-02H.-02L.-02B		
	JFS-03U.-03H.-03B		
	JFS-04U		
	JFS-05U		
	JFS-06U		
Model	JFS-01PNP.-01NPN	<p>●PNP/NPN(3 Wires)</p> <p>PLC Controller (2 Wires)</p>	
	JFS-04PNP		
	JFS-06PNP.-06NPN		

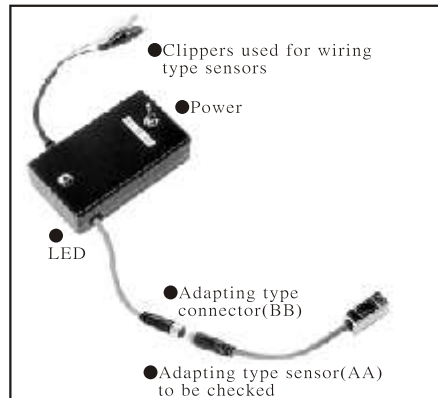
### Things to be cared

1. Any magnetic field around sensors such as welding machine or steel plate can cause the malfunction of sensors.
2. When DC current is used, ⊕ and ⊖ should be connected to ⊕ end and ⊖ end should clo the same way otherwise, motion is still O.K but LED will not be lit.
3. Use of voltage and current should not be over the limitation of sensor's spec.

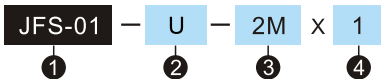


### Trouble shooting

1. Check box (see right side picture) is used to check functions of sensors.
2. ⊕ end of check box is connected to ⊕ end of a sensors and ⊖ end
3. No lit of the LED on the box means defect of a sensor



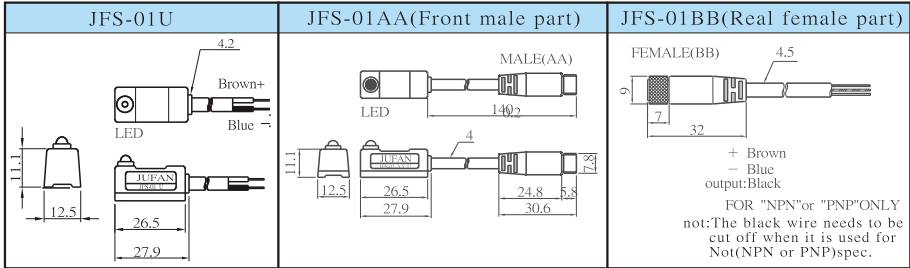
### Order form



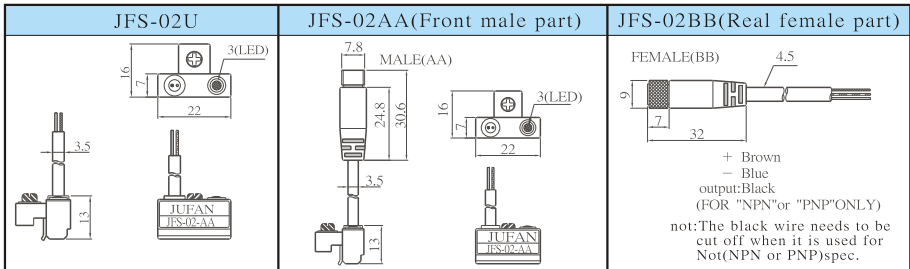
<b>1</b>	Model	JFS-01.-02.-03.-04.-05.-06
<b>2</b>	Feature	(1)U/Space : Standard (2)A : Lage current (3)B : Normal close (4)H : High magne (5)L : Low magne (6)PNP/NPN : 3 Wires (7)CC : Adapting type (8)AA : Front male part (9)BB : real female part
<b>3</b>	Long	(1)Space : 2m long(2)5M : 5m long
<b>4</b>	Q'ty	Unit : Piece

External Dimensions

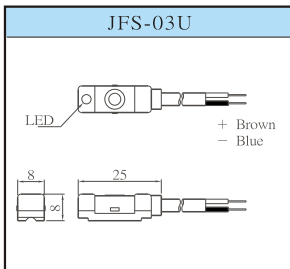
● JFS-01



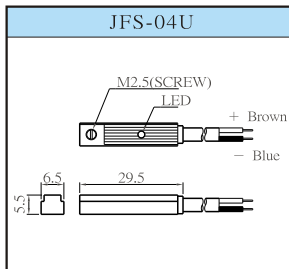
● JFS-02



● JFS-03



● JFS-04



● JFS-05

