

**Ratings**

SPDT (1 form C) or DPDT (2 form C) contacts, 3 amp @ 29VDC

**Description**

High performance, long-size crystal can relay  
 Hermetically sealed with welded construction  
 High shock and vibration performance with rotary armature design  
 Bifurcated contacts for low level switching  
 Maximum contact force through unique design  
 Low-profile, high-sensity packaging

**Performance Data**

Operate Time: 15ms maximum  
 Release Time: 10ms maximum  
 Initial Contact Resistance: .05 ohms max.  
 Contact Arrangement: SPDT or DPDT  
 Insulation Resistance: 1000 megohms min.

**Contact Rating:**

Non-inductive and low level  
 3 amp @ 29VDC;  
 1 amp @ 115VAC, 60 to 400Hz, (10, case ungrounded)  
 0.3 ampere at 115V, 60 to 400Hz, (10, case grounded)

Inductive—consult factory  
 Higher AC ratings available—consult factory

Sensitivity: SPDT—24 milliwatts  
 DPDT—40 milliwatts

**Dielectric Strength**

1000V rms at sea level  
 500V rms across open contacts  
 350V rms at 80,000 feet

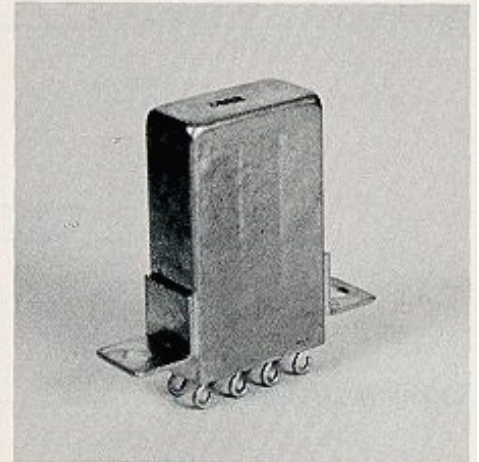
Vibration: 5-55Hz at 0.1 inch double amplitude, 55-2000Hz at a constant 15g, 20g available on request

Shock: 50g operational

Ambient Temperature: -65°C to 125°C

**Approvals**

MIL-R-5757/13 approved



**Type Designation and Coil Data**

WJS-3D (25 Milliwatt Average Sensitivity) SPDT					
Relay Type	DC Nominal Coil Data		Max. Pick-up	Drop Out Milli-Amperes	
	Milliamperes	Ohms*		Max.	Min.
WJS-3D-35.0 mADC	52.5	20	35.0	17.5	3.5
WJS-3D-15.8 mADC	23.5	100	15.8	7.9	1.58
WJS-3D-7.2 mADC	10.8	500	7.2	3.6	.72
WJS-3D-5.0 mADC	7.5	1000	5.0	2.5	.50
WJS-3D-4.1 mADC	6.1	1500	4.1	2.0	.41
WJS-3D-3.5 mADC	5.2	2000	3.5	1.7	.35
WJS-3D-3.2 mADC	4.8	2500	3.2	1.6	.32
WJS-3D-2.2 mADC	3.3	5000	2.2	1.1	.22
WJS-3D-1.8 mADC	2.7	8000	1.8	.9	.18
WJS-3D-1.6 mADC	2.4	10,000	1.6	.8	.16

WJS-6D (40 Milliwatt Average Sensitivity) DPDT					
Relay Type	DC Nominal Coil Data		Max. Pick-up	Drop Out Milli-Amperes	
	Milliamperes	Ohms*		Max.	Min.
WJS-6D-45.0 mADC	67.5	20	45.0	22.5	4.5
WJS-6D-20.0 mADC	30.0	100	20.0	10.0	2.0
WJS-6D-9.0 mADC	13.5	500	9.0	4.5	.9
WJS-6D-6.3 mADC	9.4	1000	6.3	3.1	.63
WJS-6D-5.2 mADC	7.8	1500	5.2	2.6	.52
WJS-6D-4.5 mADC	6.7	2000	4.5	2.2	.45
WJS-6D-4.0 mADC	6.0	2500	4.0	2.0	.40
WJS-6D-2.8 mADC	4.2	5000	2.8	1.4	.28
WJS-6D-2.3 mADC	3.4	8000	2.3	1.1	.23
WJS-6D-2.0 mADC	3.0	10,000	2.0	1.0	.20

\*D-C Resistance—Standard Tolerance ±10%.  
 Other values of resistance for different current ratings can be supplied  
 Dimensions, Terminal and Mounting Variations on next page.

Note: See military cross-reference, page 15.

**Ordering Information**

WJS  I  II  III  IV

- I. Mounting and terminal variation
- II. 3D (SPDT) or 6D (DPDT)
- III. Coil voltage
- IV. DC or mA DC

Example, WJSOR-6D-12VDC calls for standard mounting bracket, straight pins, DPDT—12 volts.