

DF-RW

Weld field immune magnetic proximity sensor

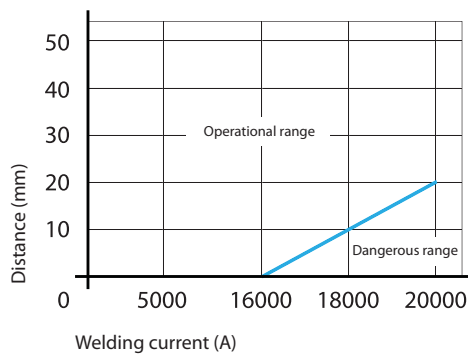
- Applied in strong magnetic field environments such as the welding cells of automotive manufacturing
- 2 colour indication
- Solid state sensor



TECHNICAL CHARACTERISTICS		ELECTRICAL CIRCUIT
Wiring method	2-Wire Type	
Switching logic	Solid State Output, Normally Open	
Working voltage (V DC)	10 ÷ 28	
Max Switching current (mA)	5 ÷ 50	
Max Contact rating (W) ^(A)	1,5	
Max Voltage drop (V)	5	
Max Leakage current (mA)	1	
State indicator (LED)	Red: unstable sensing range Green: stable sensing range	
Cable number and section (mmq)	2 x 4,8 (PVC)	
Max Response time (ms)	50	
Magnetic field resistance (A) ^(B)	16000	
Magnet requirement (Gauss) ^(C)	85	
Working temperature (°C)	-10 ÷ 60	
Shock (G) ^(D)	50	
Vibration (G) ^(E)	9	
Protection degree	IEC 60529 IP67	
Protection circuit ^(F)	3,4	

(A) WARNING: Never exceed rating (Watt = Voltage x Amperage). Permanent damage to sensor will occur
 (B) The operational distance between DF-RW and welding gun (welding conductor or cable) can be 0 mm when the welding current is less than 16000 A
 (C) Measuring standard target: Ø15.5 x Ø8 x 5T (Anisotropy rubber magnet)
 (D) Sin wave / X, Y, Z 3 directions / 3 times each direction / 11 ms each time
 (E) Double amplitude 1.5 mm / 10 Hz - 55 Hz - 10 Hz (Sweep 1 min) / X, Y, Z 3 directions / 1 hour each time
 (F) 1 = None / 2 = Short-circuit / 3 = Power Source Reverse polarity / 4 = Surge Suppression

Weld Field immune



0 mm operational distance between sensor and welding gun (welding conductor or cable) with less than 16000 A AC welding current.

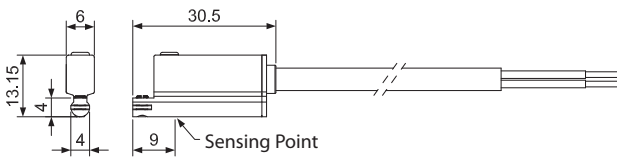
CODIFICATION KEY

D	F	-	R	W	7	0	0	M	1	2
1			2		3			4		

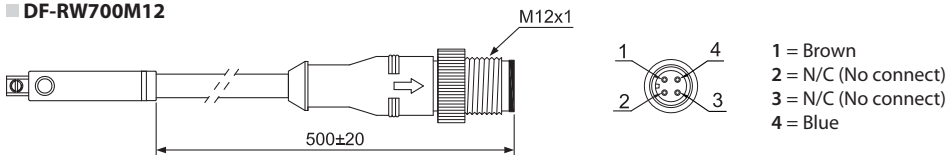
1 Series	2 Type	3 Model	4 Terminal
DF-R = Magnetic proximity sensor	W = Weld field immune	700 = Solid state output N.O.	L03 = 3 m Cable length M12 = M12 Connector

DIMENSIONS

■ DF-RW700L03

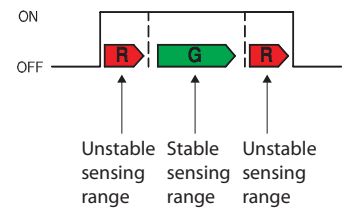


■ DF-RW700M12

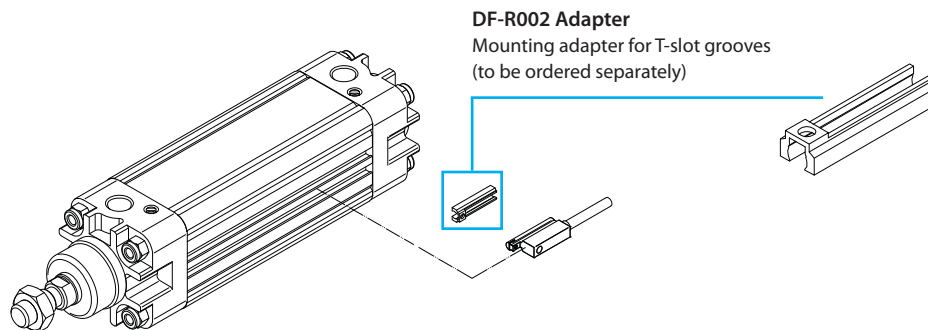


TWO COLOR INDICATION

Precision of setting position.
Unstable sensing range: red LED light on.
Stable sensing range: green LED light on.



MOUNTING SCHEME



M, KE, KD, KL, RP, RM, RO, RN, RS, RQ, OV, R, W series