



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Magnetic: DPRI

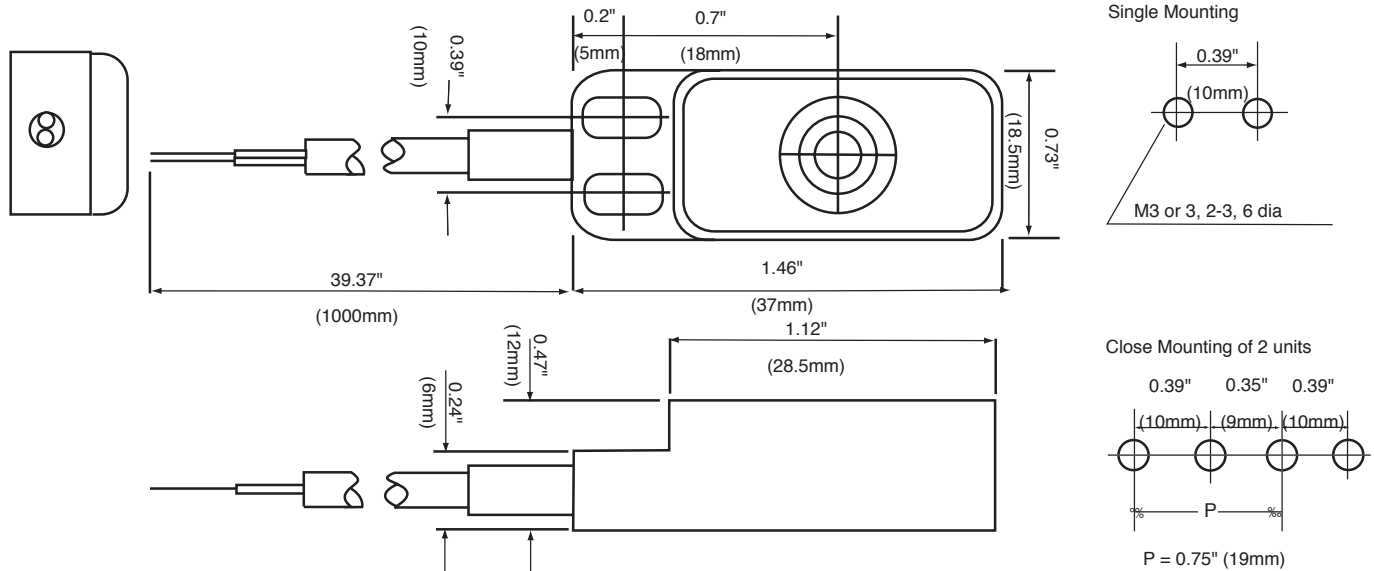
Magnetic Proximity Switches



- Lightweight, compact design reduces mounting space requirements
- Compact size allows units to be mounted in close proximity to each other
- Sealed reed contact can be used in dusty locations
- Long life and high reliability

The DPRI magnetic proximity switch incorporates a sealed reed switch and four magnets inside a compact housing. This self-contained proximity switch requires no external power supply and can detect the presence of magnetic objects without contact.

Dimensions



Specifications

		DPRI-01		
PLCs	Normal Switching Distance	5mm ±10%	√	
	Operating Distance	0 to 4mm	√	
	Release Distance	Over switching distance, 9mm (maximum)	√	
	Repeat Error ON	0.05mm (maximum)	√	
	Repeat Error OFF	0.15mm (maximum)	√	
	Temperature Error (−10 to 50°C)	±0.5mm or less (20°C as standard)	√	
	Response Speed	300Hz or less (bounce 0.4ms or less)	√	
Operator Interfaces	Output	Contact Configuration	1NO	√
		Switching Capacity	AC: 10VA (maximum) DC: 10W (maximum)	√
		Operating Voltage	AC: 100V (maximum) DC: 100V (maximum)	√
		Operating Current	AC: 0.25A (maximum) DC: 0.25A (maximum)	√
		Initial Contact Resistance	0.35Ω (maximum)	√
Automation Software	Shock Resistance	20G or less	√	
	Ambient Temperature Range	−10 to +50°C	√	
	Sensing Object	Magnetic materials: Fe, Ni, Cu, Ferrite, etc.	√	
	Standard Sensing Object	30 x 20 x 1 mm, Ferromagnetic soft iron plate	√	
	Life Expectancy	Electrical	20,000,000 operations	√
		Mechanical	1,000,000,000 operations	√
	Lead Wire	Cable type: 5mm 2-core vinyl cabtyre cable, 3-1/3' (1m) long		√
Weight	Approximately 40g		√	

Part Number

Description	Part Number
Magnetic Proximity Switch	DPRI-01

For information on accessories, see page 229.

Operation Principle

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