

Magnetic: DPRI

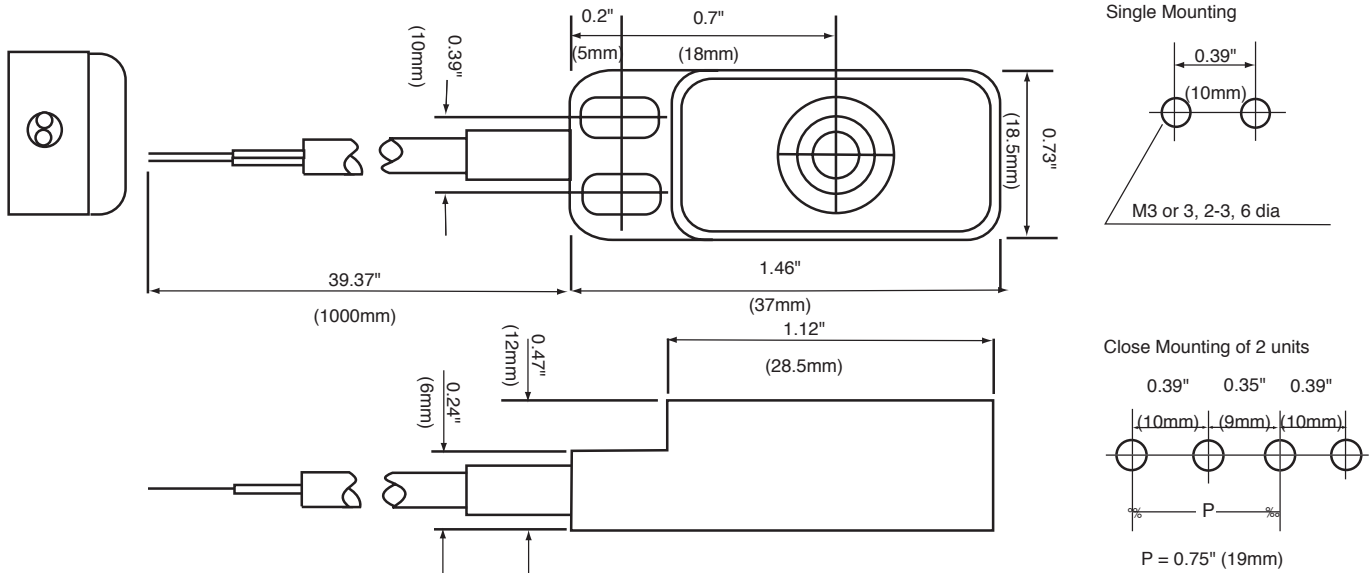
Magnetic Proximity Switches



- 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)	√
Shock Resistance	20G or less	√		
Ambient Temperature Range	-10 to +50°C	√		
Automation Software	Sensing Object	Magnetic materials: Fe, Ni, Cu, Ferrite, etc.	√	
	Standard Sensing Object	30 x 20 x 1mm, 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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