Magnetic: DPRI
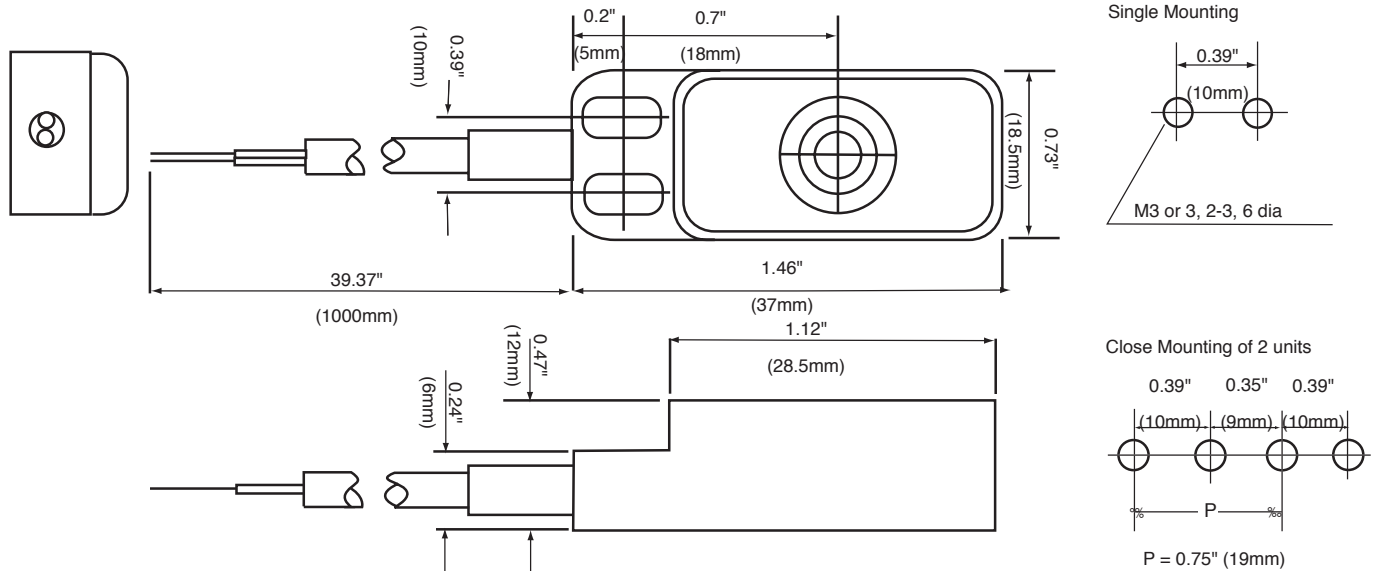
Magnetic Proximity Switches

- 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

0.2" (5mm)
0.7" (18mm)
0.39" (10mm)
18.5mm
0.73"
39.37" (1000mm)
1.46" (37mm)
0.47" (12mm)
0.24" (6mm)
1.12" (28.5mm)

Single Mounting
0.39" (10mm)
M3 or 3, 2-3, 6 dia

Close Mounting of 2 units
0.39" (10mm)   0.35" (9mm)   0.39" (10mm)
P
P = 0.75" (19mm)

Specifications

			DPRI-01
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)	√
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	√
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

Operation Principle

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.

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