

## Magnetic: DPRI

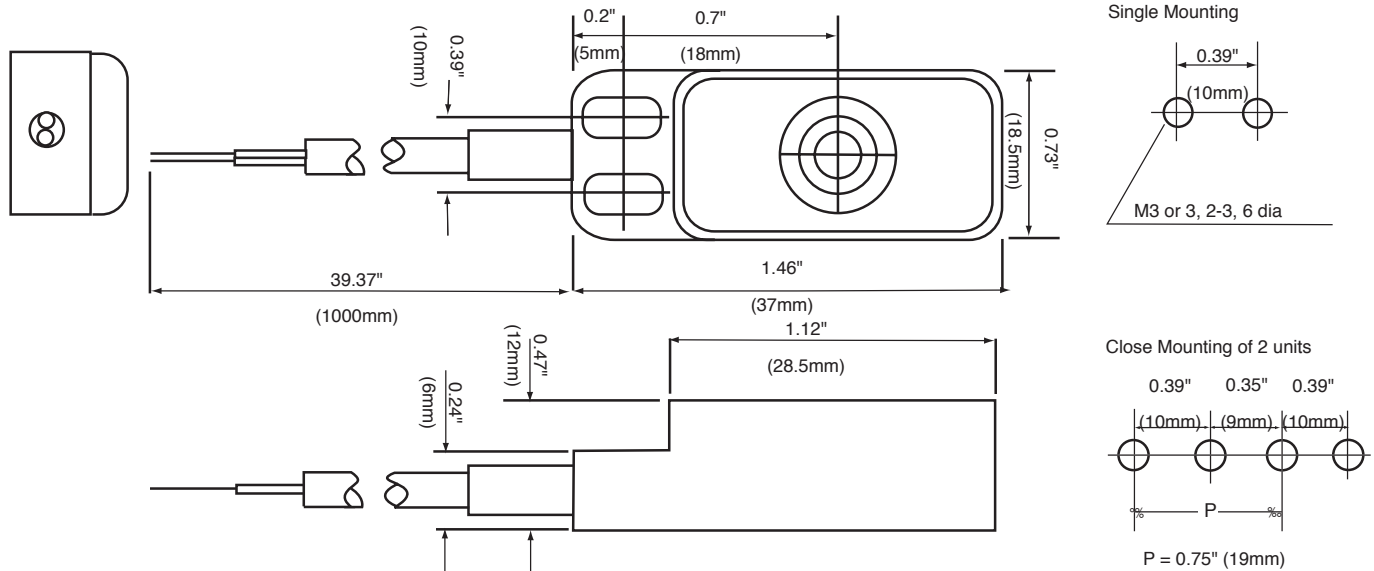
### Magnetic Proximity Switches



- 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
<b>Normal Switching Distance</b>	5mm ±10%	√
<b>Operating Distance</b>	0 to 4mm	√
<b>Release Distance</b>	Over switching distance, 9mm (maximum)	√
<b>Repeat Error ON</b>	0.05mm (maximum)	√
<b>Repeat Error OFF</b>	0.15mm (maximum)	√
<b>Temperature Error (-10 to 50°C)</b>	±0.5mm or less (20°C as standard)	√
<b>Response Speed</b>	300Hz or less (bounce 0.4ms or less)	√
<b>Output</b>	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)
<b>Shock Resistance</b>	20G or less	√
<b>Ambient Temperature Range</b>	-10 to +50°C	√
<b>Sensing Object</b>	Magnetic materials: Fe, Ni, Cu, Ferrite, etc.	√
<b>Standard Sensing Object</b>	30 x 20 x 1mm, Ferromagnetic soft iron plate	√
<b>Life Expectancy</b>	Electrical	20,000,000 operations
	Mechanical	1,000,000,000 operations
<b>Lead Wire</b>	Cable type: 5mm 2-core vinyl cabtyre cable, 3-1/3' (1m) long	√
<b>Weight</b>	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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