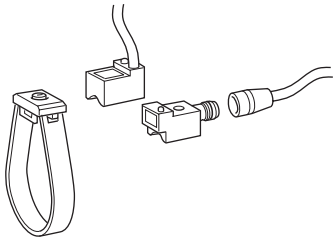


Solid State Sensors

These sensors are of solid-state type, with no moving parts. Short-circuit and transient protection is incorporated as standard. The integral electronics make these sensors suitable for applications with very high switching frequencies.

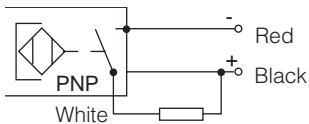


Specifications

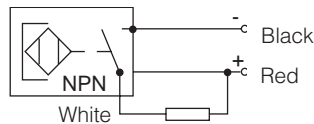
Design	Hall element
Output	PNP resp. NPN, N.O.
Voltage range	10-30 VDC
Max permissible ripple	10%
Max voltage drop	0.5 V at 100 mA
Max load current, P1A-2XMK, LK	150 mA
P1A-2XHK, EK, JH, FH	100 mA
Max breaking power (resistive)	6 W
Internal consumption	<30 mA at 30 V
Min actuating distance	5 mm
Hysteresis	1.1 - 1.3 mm
Repeatability accuracy	±0.1 mm
Max on/off switching frequency	1 kHz
Max on/off switching time	0.8/3.0 ms
Encapsulation, P1A-2XJH, FH	IP 65
Encapsulation, P1A-2XHK, EK, MK, LK	IP 67
Temperature range	-10 °C to +60 °C (14°F to 140°F)
Indication	LED
Shock resistance	40 g
Material, housing	Polyamid 11
Material, mould	Epoxy
Cable	PVC 3x0,15 mm ²
Cable incl. female part connector	PVC 3x0,15 mm ²
Connector	8 mm snap on
Mounting	Mounting yoke
Material, mounting	Acetal/Stainless steel
Material, screw	Stainless steel

Solid State Sensor Wiring

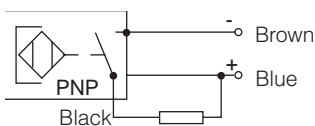
P1A-2XMK



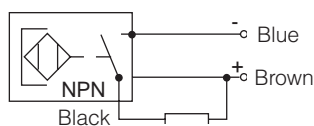
P1A-2XLK



P1A-2XHK, P1A-2XJH



P1A-2XEK, P1A-2XFH



Electronic Sensors

Part Number	Output	Cable Length	Weight (lb)
P1A-2XMK, Rt. Angle	PNP, N.O.	2 m	0.09
P1A-2XLK, Rt. Angle	NPN, N.O.	2 m	0.09
P1A-2XHK	PNP, N.O.	2 m	0.022
P1A-2XEK	NPN, N.O.	2 m	0.022
P1A-2XJH	PNP, N.O.	*	0.033
P1A-2XFH	NPN, N.O.	*	0.033

Mounting Brackets

Part Number	Fits Cylinder Bore Size	Weight (lb)
P1A-2CCC	10mm	0.01
P1A-2DCC	12mm	0.01
P1A-2FCC	16mm	0.0176
P1A-2HCC	20mm	0.0176
P1A-2JCC	25mm	0.022

Cable for Sensors

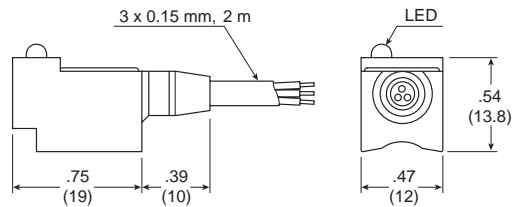
Part Number	Cable Length	Weight (lb)
9126344341**	3 m	0.12
9126344342**	10 m	0.4

* Cable ordered separately

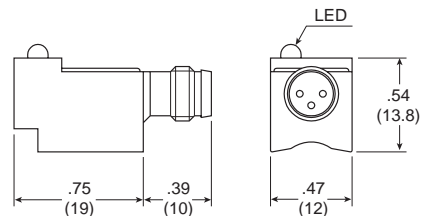
** Cable includes female part connector for sensor

Dimensions

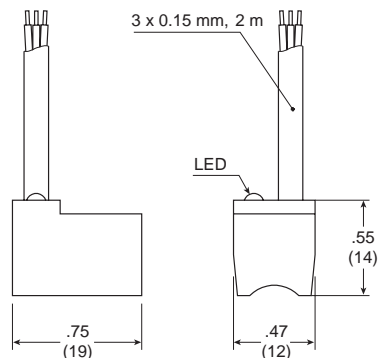
P1A-2XHK and P1A-2XEK



P1A-2XJH and P1A-2XFH

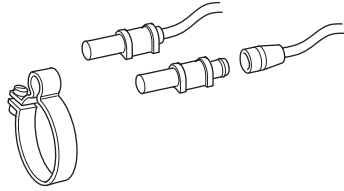


P1A-2XMK and P1A-2XLK



Reed Sensors

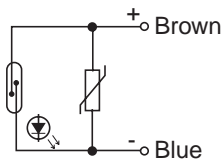
The reed sensors incorporate a well-proven, universal-voltage, compact reed switch element; making them suitable for a wide range of applications. They can work with electronic control systems or conventional relay systems.



Specifications

Design	Reed
Output	Making (N.O.)
Voltage range, P1A-2XRL	110 VAC/VDC
Voltage range, P1A-2XSH	60 VAC/VDC
Max voltage drop	2.8 V
Max load current	180 mA
Max breaking power (resistive)	10 W
Min actuating distance	5 mm
Hysteresis	2 mm
Repeatability accuracy	±0.2 mm
Max on/off switching frequency	500 Hz
Max on/off switching time	1 ms
Encapsulation, P1A-2XRL	IP 67
Encapsulation, P1A-2XSH	IP 65
Temperature range	-30 °C to +80 °C (22°F to 176°F)
Indication	LED
Shock resistance	30 g
Material, housing	Nylon 66
Material, mould	Epoxy
Cable	PVC 2x0.2 mm ²
Cable incl. female part connector	PVC 2x0.2 mm ²
Mounting	Mounting yoke
Material, mounting	Stainless steel
Material, screw	Stainless steel
Connector	8 mm snap on

Reed Sensor Wiring



Electronic Sensors

Part Number	Output	Cable Length	Weight (lb)
P1A-2XRL	Making (N.O.)	3m	0.12
P1A-2XSH	Making (N.O.)	*	0.004

Mounting Brackets

Part Number	Fits Cylinder Bore Size	Weight (lb)
P1A-2CCB	10mm	0.004
P1A-2DCB	12mm	0.005
P1A-2FCB	16mm	0.006
P1A-2HCB	20mm	0.009
P1A-2JCB	25mm	0.010

Cable for Sensors

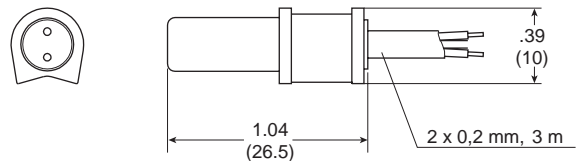
Part Number	Cable Length	Weight (lb)
9126344341**	3 m	0.12
9126344342**	10 m	0.4

* Cable ordered separately

** Cable includes female part connector for sensor

Dimensions

P1A-2XRL



P1A-2XSH

