

Inductive Proximity Sensors

2mm to 3mm Sensing Range

3-Wire
DC

Inductive

Specifications		3-Wire DC			
SENSING RANGE		2.2mm	2.5mm	2.5mm	3mm
SHIELDED		Yes	No	No	No
MODEL NUMBER(S)	NPN	922FC0.6YA-A3N-L	APM-B3A1	APM-D3A1	NBN3-6.5M30-E0
	PNP	—	APM-B3D1	APM-D3D1	NBN3-6.5M30-E2
OUTPUT: Transistor, Normally Open	Suffix A1,A3N	NPN, sinking	NPN, sinking	NPN, sinking	NPN, sinking
	Suffix E2/D1	—	PNP, sourcing	PNP, sourcing	PNP, sourcing
LOAD CURRENT		160mA max.	30mA max.	30mA max.	100mA max.
LEAKAGE CURRENT		≤10μA	≤10μA	≤10μA	≤10μA
VOLTAGE DROP		≤1VDC	≤1VDC	≤1VDC	≤2VDC
SHORT CIRCUIT AND OVERLOAD PROTECTION		Yes	Yes	Yes	Yes
REVERSE POLARITY PROTECTION		Yes	Yes	Yes	Yes
SUPPLY VOLTAGE		8-32VDC	12-24VDC	12-24VDC	10-30VDC
LED(s)		Yes (1)	Yes (1)	Yes (1)	Yes (1)
CURRENT CONSUMPTION		≤15mA	≤10mA	≤10mA	≤15mA
REPEATABILITY		≤.01mm	≤.01mm	≤.01mm	≤0.1mm
HYSTERESIS		3-15%(5% typical)	3-15%(5% typical)	3-15%(5% typical)	3-15%(5% typical)
SWITCHING FREQUENCY		500Hz	120Hz	120Hz	2kHz
ELECTROMAGNETIC COMPATIBILITY COMPLIANCE		NEMA ICS5-2000 See page 6	NEMA ICS5-2000 See page 6	NEMA ICS5-2000 See page 6	NEMA ICS5-2000 See page 6
PROTECTION IEC		IP67	IP67	IP67	IP67
AMBIENT TEMPERATURE		-14°F to +158°F	-14°F to +158°F	-14°F to +158°F	-14°F to +158°F
HOUSING MATERIAL		Aluminum	Polyallylate resin	Polyallylate resin	Nickel-plated brass
SENSING FACE		Polyamide	Polyallylate resin	Polyallylate resin	PBT
APPROVALS CE	UL LISTED General Purpose	No	No	No	Yes
	SP US General Purpose	No	No	No	Yes
	FM Nonincendive	No	No	No	Yes
ELECTRICAL CONNECTION		2-meter cable, PVC covered, 3-conductor, #26AWG	2-meter cable, PVC covered, 3-conductor, #26AWG	2-meter cable, PVC covered, 3-conductor, #26AWG	2-meter cable, PVC covered, 3-conductor, #22AWG

Dimensions (mm)

Metal
 Crastin (NBN3)
 Polyallylate (APM)
 Polyamide (922)

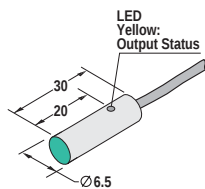


See pages
767-812
for cordsets

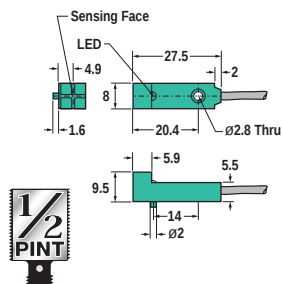


For Pile Driver
versions see
pages 162-177

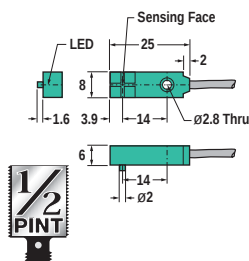
MS Series 922FC0.6YA-A3N-L



MS Series APM-B3A1 APM-B3D1



MS Series APM-D3A1 APM-D3D1



Basic Series NBN3-6.5M30-E0 NBN3-6.5M30-E2

