

PNP Solid State Sensor Selection Guide

Series	Bore size or type	3M flying leads	10m flying leads	8mm quick connect*	8mm quick connect w/ 1 m lead*	12mm quick connect*	Bracket	Sensor page #	Bracket page #		
P1Q	12mm - 25mm	P8S-CPFLS	N/A	P8S-CPSHS	N/A	P8S-CPMHS	N/A	N/A	N/A		
	32mm - 100mm	P8S-CPFLR	N/A	P8S-CPSHR	N/A	P8S-CPMHR	N/A	N/A	N/A		
Compact cylinders	P1M standard sensor	All	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	N/A	B298	N/A	
	P1M right angle sensor	All	P8S-SPELXD	P8S-SPETXD	P8S-SPTHXD	N/A	N/A	N/A	B301	N/A	
	LPM	9/16"	L076990000 ²	N/A	L07699000C	N/A	N/A	N/A	N/A	B305	N/A
		3/4" - 1-1/8"	L077000000 ²	N/A	L07700000C	N/A	N/A	N/A	N/A	B305	N/A
1-1/2" - 2"		L077010000 ²	N/A	L07701000C	N/A	N/A	N/A	N/A	B305	N/A	
	2-1/2" - 4"	L077020000 ²	N/A	L07702000C	N/A	N/A	N/A	N/A	B305	N/A	
Round body cylinders	P1L	20 - 25mm	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC01	B298	B301	
		32 - 63mm	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC02	B298	B301	
		80 - 100mm	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC03	B298	B301	
	SRM/SRDM	9/16" - 3/4"	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC01	B298	B301	
		1-1/16" - 2-1/2"	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC02	B298	B301	
	P	1-1/8" - 2-1/2"	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC02	B298	B301	
		3" - 4"	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC03	B298	B301	
Tie rod cylinders	3MA/4MA standard sensor	1-1/2" - 5"	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	N/A	B298	N/A	
	3MA/4MA	6" - 8"						P8S-TMA0X	B298	N/A	
	3MA/4MA mini global sensor	1-1/8" - 5"	P8S-MPFLX	P8S-MPFTX	P8S-MPSHX	N/A	N/A	P8S-TMA0Z	B300	N/A	
Iso cylinders	P1A standard sensor	10-25mm	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC01	B298	B301	
	P1A right angle sensors	10mm	P1A-2XMK ¹	N/A	N/A	N/A	N/A	P1A-2CCC	B304	B304	
		12mm	P1A-2XMK ¹	N/A	N/A	N/A	N/A	P1A-2DCC	B304	B304	
		16mm	P1A-2XMK ¹	N/A	N/A	N/A	N/A	P1A-2FCC	B304	B304	
		20mm	P1A-2XMK ¹	N/A	N/A	N/A	N/A	P1A-2HCC	B304	B304	
		25mm	P1A-2XMK ¹	N/A	N/A	N/A	N/A	P1A-2JCC	B304	B304	
	P1D standard & clean profiles	All	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	N/A	B298	N/A	
P1D standard profile mini sensors	All	P8S-MPFLX	P8S-MPFTX	P8S-MPSHX	N/A	N/A	N/A	B300	N/A		
P1D tie rod version	All	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMA0X	B298	N/A		
Rodless cylinders	P1X	All	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMA0Y	B298	N/A	
	P1Z	All	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	N/A	B298	N/A	
	OSP-P	All	KL3308 ¹	KL3309 ⁴	KL3312	N/A	N/A	N/A	B303	N/A	
Guided cylinders	P5T	Flush mount	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	N/A	B298	N/A	
		Right angle	P8S-SPELXD	P8S-SPETXD	P8S-SPTHXD	N/A	N/A	Included w/ sensor	B299	N/A	
	P5T2	All	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	N/A	B298	N/A	
	P5E	All	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	N/A	B298	N/A	
	HB	All	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	N/A	B298	N/A	
		20 - 25mm	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC01	B298	B301	
32 - 63mm		P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC02	B298	B301		
P5L	80 - 100mm	P8S-GPFLX	P8S-GPFTX	P8S-GPSHX	P8S-GPSCX	P8S-GPMHX	P8S-TMC03	B298	B301		
Rotary actuators	PV WR XR	Normally open	SMH-1P ²	N/A	SMH-1PC	N/A	N/A	N/A	B307	N/A	
		Normally closed	SMC-1P ²	N/A	SMC-1PC	N/A	N/A	N/A	B307	N/A	
	PRN(A)	All	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	PTR	10, 15	SWH-1P ³	N/A	SWH-1PC	N/A	N/A	Included	B308	N/A	
20, 25, 32		SWH-2P ³	N/A	SWH-2PC	N/A	N/A	Included	B308	N/A		

1. Flying leads are 2 meters in length
 2. Flying Leads are 1.5 meters in length

3. Flying leads are 1 meter in length
 4. Flying leads are 5 meter in length

Note: See page B309 for Weld Immune Sensors and pages B311-B313 for NAMUR Intrinsically Safe Sensors.
 * See page B317 for cord sets.



NPN Solid State Sensor Selection Guide

Series	Bore size or type	3m flying leads	10m flying leads	8mm quick connect*	8mm quick connect w/ 1m lead*	12mm quick connect*	Bracket	Sensor page #	Bracket page #		
P1Q	12mm - 25mm	P8S-CNFLS	N/A	P8S-CNSHS	N/A	P8S-CNMHS	N/A	N/A	N/A		
	32mm - 100mm	P8S-CNFLR	N/A	P8S-CNSHR	N/A	P8S-CNMHR	N/A	N/A	N/A		
Compact cylinders	P1M standard sensor	All	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	N/A	B298	N/A	
	P1M right angle sensor	All	P8S-SNELX	P8S-SNETX	P8S-SNTHX	N/A	N/A	N/A	B301	N/A	
	LPM	9/16"	L076950000 ²	N/A	L07695000C	N/A	N/A	N/A	N/A	B305	N/A
		3/4" - 1-1/8"	L076960000 ²	N/A	L07696000C	N/A	N/A	N/A	N/A	B305	N/A
1-1/2" - 2"		L076970000 ²	N/A	L07697000C	N/A	N/A	N/A	N/A	B305	N/A	
	2-1/2" - 4"	L076980000 ²	N/A	L07698000C	N/A	N/A	N/A	N/A	B305	N/A	
Round body cylinders	P1L	20 - 25mm	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC01	B298	B301	
		32 - 63mm	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC02	B298	B301	
		80 - 100mm	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC03	B298	B301	
	SRM/SRDM	9/16" - 3/4"	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC01	B298	B301	
		1-1/16" - 2-1/2"	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC02	B298	B301	
	P	1-1/8" - 2-1/2"	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC02	B298	B301	
	3" - 4"	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC03	B298	B301		
Tie rod cylinders	3MA/4MA standard sensor	1-1/2" - 5"	P8S-GNFLX	P8S-GPNFTX	P8S-GNSHX	P8S-GPNSCX	P8S-GNMHX	N/A	B298	N/A	
	3MA/4MA	6" - 8"					P8S-TMA0X	B298	N/A		
	3MA/4MA mini-global sensor	1-1/8" - 5"	P8S-MNFLX	P8S-MNFTX	P8S-MNSHX	N/A	N/A	P8S-TMA0Z	B300	N/A	
ISO cylinders	P1A standard sensor	10-25mm	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC01	B298	B301	
		10mm bore	P1A-2XLK ¹	N/A	N/A	N/A	N/A	P1A-2CCC	B304	B304	
	P1A right angle sensors	12mm bore	P1A-2XLK ¹	N/A	N/A	N/A	N/A	P1A-2DCC	B304	B304	
		16mm bore	P1A-2XLK ¹	N/A	N/A	N/A	N/A	P1A-2FCC	B304	B304	
		20mm bore	P1A-2XLK ¹	N/A	N/A	N/A	N/A	P1A-2HCC	B304	B304	
	25mm bore	P1A-2XLK ¹	N/A	N/A	N/A	N/A	P1A-2JCC	B304	B304		
Solid State / Reed Sensors	P1D standard & clean profiles	All	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	N/A	B298	N/A	
	P1D standard profile mini Sensors	All	P8S-MNFLX	P8S-MNFTX	P8S-MNSHX	N/A	N/A	N/A	B300	N/A	
	P1D tie rod version	All	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMA0X	B298	N/A	
Rodless Cylinders	P1X	All	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMA0Y	B298	N/A	
	P1Z	All	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	N/A	B298	N/A	
	OSP-P	All	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Weld Immune Sensors	P5T	Flush mount	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	N/A	B298	N/A	
		Right angle	P8S-SNELX	P8S-SNETX	P8S-SNTHX	N/A	N/A	N/A	B299	N/A	
	P5T2	All	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	N/A	B298	N/A	
	P5E	All	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	N/A	B298	N/A	
	HB	All	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	N/A	B298	N/A	
Cordset / Connect Block	P5L	20 - 25mm	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC01	B298	B301	
		32 - 63mm	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC02	B298	B301	
		80 - 100mm	P8S-GNFLX	P8S-GNFTX	P8S-GNSHX	P8S-GNSCX	P8S-GNMHX	P8S-TMC03	B298	B301	
Rotary actuators	PV WR XR	Normally open	SMH-1N ²	N/A	SMC-1NC	N/A	N/A	N/A	B307	N/A	
		Normally closed	SMC-1N ²	N/A	SMC-1NC	N/A	N/A	N/A	B307	N/A	
	PRN(A)	All	See page B306								
	PTR	10, 15	SWH-1N ³	N/A	SWH-1NC	N/A	N/A	Included	B308	N/A	
20, 25, 32		SWH-2N ³	N/A	SWH-2NC	N/A	N/A	Included	B308	N/A		

1 Flying leads are 2 meters in length
 2 Flying Leads are 1.5 meters in length
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* See page B317 for cord sets.



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 Electronic Sensors
 Actuator Products
 Selection Guide
 Drop-in Sensors
 Solid State / Reed Sensors
 Weld Immune Sensors
 Cordset / Connect Block
 NAMUR Sensors
 Proximity Sensors

Reed Sensor Selection Guide

Series	Bore size or type	3m flying leads	10m flying leads	8mm quick connect*	8 mm quick connect w/ 1 m lead*	12mm quick connect*	Bracket	Sensor page #	Bracket page #		
P1Q	12mm - 25mm	P8S-CRFLS	N/A	P8S-CRSHS	N/A	P8S-CRMHS	N/A	N/A	N/A		
	32mm - 100mm	P8S-CRFLR	N/A	P8S-CRSHR	N/A	P8S-CRMRH	N/A	N/A	N/A		
Compact cylinders	P1M standard sensor	All	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	N/A	B299	N/A	
	P1M right angle sensor	All	P8S-SRELX	P8S-SRETX	P8S-SRTHX	N/A	N/A	N/A	B301	N/A	
	LPM	9/16"	L077030000 ¹	N/A	L07703000C	N/A	N/A	N/A	N/A	B305	N/A
		3/4" - 1-1/8"	L077040000 ¹	N/A	L07704000C	N/A	N/A	N/A	N/A	B305	N/A
1-1/2" - 2"		L077050000 ¹	N/A	L07705000C	N/A	N/A	N/A	N/A	B305	N/A	
	2-1/2" - 4"	L077060000 ¹	N/A	L07706000C	N/A	N/A	N/A	N/A	B305	N/A	
Round body cylinders	P1L	20 - 25mm	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC01	B299	B301	
		32 - 63mm	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC02	B299	B301	
		80 - 100mm	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC03	B299	B301	
	SRM/SRDM	9/16" - 3/4"	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC01	B299	B301	
		1-1/16" - 2-1/2"	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC02	B299	B301	
	P	1-1/8" - 2-1/2"	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC02	B299	B301	
		3" - 4"	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC03	B299	B301	
Tie rod cylinders	3MA/4MA standard sensor	1-1/2" - 5"	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	N/A	B299	N/A	
	3MA/4MA	6" - 8"						P8S-TMA0X	B299	N/A	
	3MA/4MA mini global sensor	1-1/8" - 5"	P8S-MRFLX	P8S-MRFTX	P8S-MRSHX	N/A	N/A	P8S-TMA0Z	B299	N/A	
ISO cylinders	P1A standard sensor	10-25mm	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC01	B299	B301	
	P1A alternate sensors	10mm bore	P1A-2XRL	N/A	P1A-2XSH	N/A	N/A	P1A-2CCB	B304	B304	
		12mm bore	P1A-2XRL	N/A	P1A-2XSH	N/A	N/A	P1A-2DCB	B304	B304	
		16mm bore	P1A-2XRL	N/A	P1A-2XSH	N/A	N/A	P1A-2FCB	B304	B304	
		20mm bore	P1A-2XRL	N/A	P1A-2XSH	N/A	N/A	P1A-2HCB	B304	B304	
		25mm bore	P1A-2XRL	N/A	P1A-2XSH	N/A	N/A	P1A-2JCB	B304	B304	
P1D standard & clean profiles	All	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	N/A	B299	N/A		
P1D standard profile mini sensors	All	P8S-MRFLX	P8S-MRFTX	P8S-MRSHX	N/A	N/A	N/A	B300	N/A		
P1D tie rod version	All	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMA0X	B299	N/A		
Rodless cylinders	P1X	All	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMA0Y	B299	N/A	
	P1Z	All	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	N/A	B299	N/A	
	OSP-P	All	KL3301 ³	KL3300 ⁴	KL3302	N/A	N/A	Included w/ sensor	B303	N/A	
Guided cylinders	P5T	Flush mount	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	N/A	B299	N/A	
		Right angle	P8S-SRELX	P8S-SRETX	P8S-SRTHX	N/A	N/A	N/A	B299	N/A	
	P5T2	All	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	N/A	B299	N/A	
	P5E	All	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	N/A	B299	N/A	
	HB	All	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	N/A	B299	N/A	
P5L		20 - 25mm	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC01	B299	B299	
		32 - 63mm	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC02	B299	B299	
	80 - 100mm	P8S-GRFLX	P8S-GRFTX	P8S-GRSHX	P8S-GRSCX	P8S-GRMHX	P8S-TMC03	B299	B299		
Rotary actuators	PV WR XR	N.O. high amp	SMR-1 ¹	N/A	SMR-1C	N/A	N/A	N/A	B307	N/A	
		N.O. low amp	SMR-1L ¹	N/A	SMR-1LC	N/A	N/A	N/A	B307	N/A	
		N.C.	SMD-1L ¹	N/A	SMD-1LC	N/A	N/A	N/A	B307	N/A	
PRN	50 - 800	See model code						B306	N/A		
PTR	10, 15	SWR-1 ²	N/A	SWR-1C	N/A	N/A	Included	B308	N/A		
	20, 25, 32	SWR-2 ²	N/A	SWR-2C	N/A	N/A	Included	B308	N/A		

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