

P1 P3/P4 Inductive Position Monitors

In 2025 Wandfluh AG made the switch from the P1 style inductive position monitor over to the current P3/P4 type to get more flexibility.

During the change over the older P1 style will be replaced by P3 or P4, depends on NO or NC function. The existing stock of these sensors has now been depleted and currently only the newer P3/P4 versions are available.

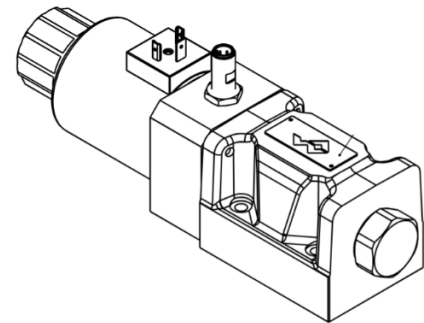


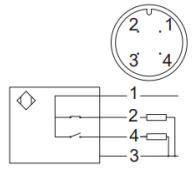
Figure 1 - WDMFA10-AD1...-P2a

Primary Differences

The P1 sensor has combined both functions, NO and NC with PNP connector. These functions are now divided into P3 NO and P4 NC. **It is not permitted to use different position sensors a and b on the same valve.**

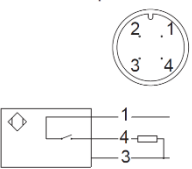
Electrical Connection P1 (No longer available)

Type:	PNP, NO (Normally open) or NC (Normally closed)
Designation:	P1
Article no.:	205.5028
Device receptacle	M12, 4 pole male
	1 = Supply voltage + 2 = Signal NC 3 = Supply voltage 0 VDC 4 = Signal NO Plus switched
Mating connector (not included in delivery)	M12, 4 pole female

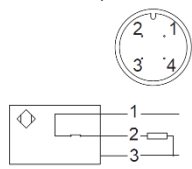


Electrical Connection P3/P4

Type:	PNP, NO (Normally open)
Designation:	P3
Device receptacle	M12, 4 pole male
	1 = Supply voltage + 3 = Supply voltage 0 VDC 4 = Signal NO Plus switched
Mating connector (not included in delivery)	M12, 4 pole female



Type:	PNP, NC (Normally closed)
Designation:	P4
Device receptacle	M12, 4 pole male
	1 = Supply voltage + 2 = Signal NC 3 = Supply voltage 0 VDC Plus switched
Mating connector (not included in delivery)	M12, 4 pole female



Primary Differences - Continued

New options available for sensor position - a and b

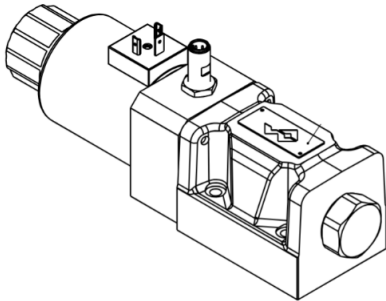


Figure 2 - WDMFA10-AB1-...-P2a

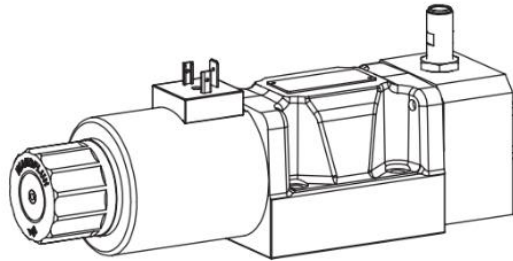


Figure 3 - WDMFA10-AB1-...-P2b

Output differences P1 and P3/P4

Due to the old P1 PNP sensors having both normally open and normally closed logic output built into the sensor, the function NO is replaced by P3, the function NC is replaced by P4

Below is an example showing how to recreate the output of a WDMFA10-AB1-G24/WD-P1b (sensor NC on the b side) using a WDMFA10-AB1-G24/WD-P4b.

Logic - WDMFA10-AB1-G24/WD-P4b (NC)

Output Signal Taken from Pin 2

Under normal operating conditions the position monitor on the WDMFA10-AB1-G24/WD-P1b will output a signal from Pin 2 on when the valve is in the rest position

Type:	PNP, NC (Normally closed)
Designation:	P4
Device receptacle	M12, 4 pole male
	1 = Supply voltage +
	2 = Signal NC
	3 = Supply voltage 0 VDC
	Plus switched
Mating connector (not included in delivery)	M12, 4 pole female

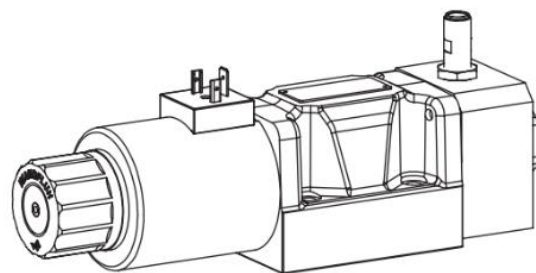
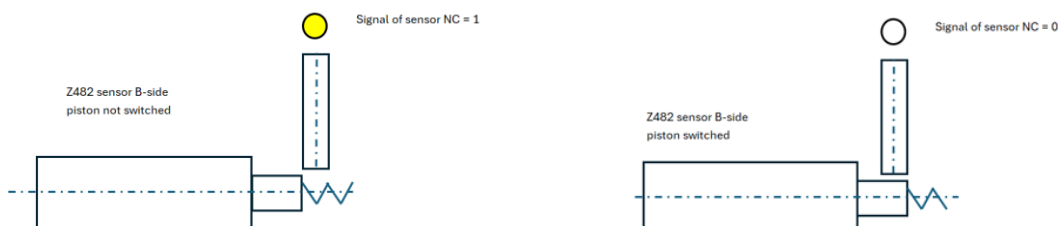


Figure 2 - WDMFA10-AB1-G24/WD-P4b



Signal output of the sensor is represented by the yellow light

Logic - WDMFA10-AB1-G24/WD-P4a

Type:	PNP, NC (Normally closed)
Designation:	P4
Article no.:	205.5023
Device receptacle	M12, 4 pole male
	1 = Supply voltage +
	2 = Signal NC
	3 = Supply voltage 0 VDC
	Plus switched
Mating connector (not included in delivery)	M12, 4 pole female

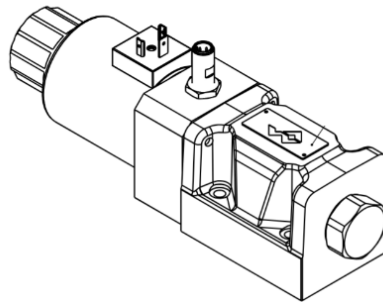
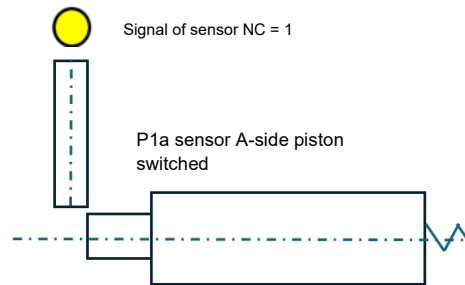
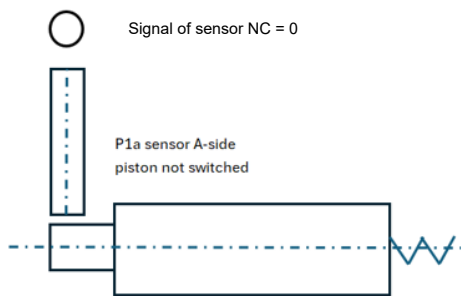


Figure 5 - WDMFA10-AB1-G24/WD-P4a



Logic - WDMFA10-AB1-G24/WD-P3a Output Signal Taken from Pin 4

Type:	PNP, NO (Normally open)
Designation:	P3
Device receptacle	M12, 4 pole male
	1 = Supply voltage +
	3 = Supply voltage 0 VDC
	4 = Signal NO
	Plus switched
Mating connector (not included in delivery)	M12, 4 pole female

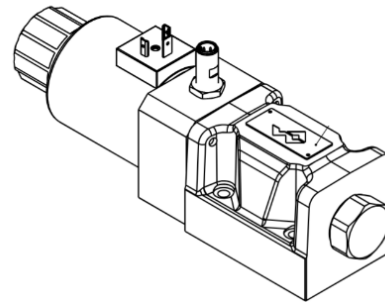


Figure 6 - WDMFA10-AB1-G24/WD-P3a

