

1 Profibus connection

Target is it to run This Axis (using C3 I20 T30) from Master plc in the same way like another axis which is using a C3 I20T11. for that reason there's a Block „C3_ProfiDrive_Statemachine“ (Programme) in the library „C3_Profiles.lib“. The functions are all like a C3 I20 T11 but only operation mode "position" or "velocity" is possible. Here is operation mode „Positioning“ used.

2 Data exchange between plc and drive (PPO13)

2.1 PZD - cyclic channel

Input		C3	Output	
Obj. 1100.3	Controlword_1	0	Statusword_1	
Col1 Row1	Position [mm] C4_3	1		Obj. 1000.3
Obj. 1901.1		2	Position [mm] C4_3	
Col1 Row2	Velocity [mm /s] C4_3	3		
Obj. 1901.2		4		Obj. 680.5
Col6 Row1	Acceleration	5	Velocity [mm /s] C4_3	
Obj. 1906.1		6		
		7		
		8		
		9		Obj. 681.5
		10	Failure	
		11		Obj. 550.1
		12		
		13		

Addition Parameters are possible as default values in Recipe-Array Wizard. This could as be adjusted or read over PKW, (ACyclic channel) with Master-plc.

	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7
	REAL	REAL	INT	INT	INT	DINT	DINT
Row 1	Position				RatioNumerator²	Acceleration¹	
Row 2	Velocity¹				RatioDenominator²	Deceleraton	
Row 3	Velocity Jog					Jerk	
Row 4	IgnoreZoneStart					Deceleraton Stop	
Row 5	IgnoreZoneStop					Acceleration Jog	
Row 6						Jerk Stop jog	

¹ Parameters are cyclic rewrite (PZD) [PLC => C3]

² only for display and debugging