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Product	Optidrive E2 IP20 & IP66 non-switched. Optidrive IP66 switched can be configured if the on-board switch connections are removed.

Title	E2 Parameter P-15 Set-up Guide
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Summary	This document gives set-up information on the Optidrive E2 parameter P-15. Parameter P-15 allows the user to configure the control terminal digital and analog inputs to suit their particular application.
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NOTE: Please read in conjunction with the Optidrive E2 User Guide.

Parameter P-15

Parameter P-15 is an important parameter on the Optidrive E2. This parameter allows the user to change the analog and digital input configuration of the drive to suit their application.

P-15	Digital input 1 (Terminal 2)	Digital input 2 (Terminal 3)	Digital input 3 (Terminal 4)			Analog input 1 (Terminal 6)	Comments
0 (Default)	Open: Stop (disable) Closed: Run (enable)	Open: Run forward Closed: Run reverse	Open: Analog speed ref 1 Closed: Preset speed 1 (P-20)			Analog speed ref 1	
1	Open: Stop(disable) Closed: Run (enable)	Open: Analog speed ref 1 Closed: Preset speed 1 or 2	Open: Preset speed 1 (P-20) Closed: Preset speed 2 (P-21)			Analog speed ref 1	
2	Open: Stop(disable) Closed: Run (enable)	Digital Input 2 (T3)	Digital input 3 (T4)	Preset speed selected		Open: Preset speeds 1 to 4 Closed: Maximum speed (P-01)	4 preset speeds selectable. Analog input 1 used as a digital input: 8V < Vin < 30V
		Open	Open	Preset speed 1 (P-20)			
		Closed	Open	Preset speed 2 (P-21)			
		Open	Closed	Preset speed 3 (P-22)			
		Closed	Closed	Preset speed 4 (P-23)			
3	Open: Stop (disable) Closed: Run (enable)	Open: Analog speed ref 1 Closed: Preset speed 1 (P-20)	External trip input: Open: Trip Closed: Run (no trip)			Analog speed ref 1	Connect external motor thermistor PTC or similar to digital input 3
4	Open: Stop (disable) Closed: Run (enable)	Open: Analog speed ref 1 Closed: Analog speed ref 2	Analog speed ref 2			Analog speed ref 1	Digital input 2 switches between analog speed ref 1 and analog speed ref 2
5	Open: Stop (disable) Closed: Forward Run	Open: Stop (disable) Closed: Reverse Run	Open: Analog speed ref 1 Closed: Preset speed 1 (P-20)			Analog speed ref 1	Closing digital inputs 1 & 2 together carries out a fast stop (P-24)
6	Open: Stop (disable) Closed: Run (enable)	Open: Forward Closed: Reverse	External trip input: Open: Trip Closed: Run (no trip)			Analog speed ref 1	Connect external motor thermistor PTC or similar to digital input 3
7	Open: Stop (disable) Closed: Forward Run	Open: Stop (disable) Closed: Reverse Run	External trip input: Open: Trip Closed: Run (no trip)			Analog speed ref 1	Closing digital inputs 1 & 2 together carries out a fast stop (P-24)

P-15	Digital input 1 (Terminal 2)	Digital input 2 (Terminal 3)	Digital input 3 (Terminal 4)		Analog input 1 (Terminal 6)	Comments
8	Open: Stop (disable) Closed: Run (enable)	Open: Forward Closed: Reverse	Digital input 3 (T4)	Analog input 1 (T6)	Preset speed selected	4 preset speeds selectable. Analog input 1 used as a digital input: 8V < Vin < 30V
			Open	Open	Preset speed 1 (P-20)	
			Closed	Open	Preset speed 2 (P-21)	
			Open	Closed	Preset speed 3 (P-22)	
9	Open: Stop (disable) Closed: Forward Run	Open: Stop (disable) Closed: Reverse Run	Digital input 3 (T4)	Analog input 1 (T6)	Preset speed selected	Closing digital inputs 1 & 2 together carries out a fast stop (P-24)
			Open	Open	Preset speed 1 (P-20)	
			Closed	Open	Preset speed 2 (P-21)	
			Open	Closed	Preset speed 3 (P-22)	
10	Normally open (NO) Momentary close to Run	Normally closed (NC) Momentary open to Stop	Open: Analog speed ref 1 Closed: Preset speed 1 (P-20)		Analog speed ref 1	
			Normally open (NO) Momentary close to Reverse direction of motor		Analog speed ref 1	
11	Normally open (NO) Momentary close to Run	Normally closed (NC) Momentary open to Stop	Normally open (NO) Momentary close to Reverse direction of motor		Analog speed ref 1	Closing digital inputs 1 & 2 together carries out a fast stop (P-24)
12	Open: Stop (disable) Closed: Run (enable)	Open: Fast stop active Closed: Run (enable)	Open: Analog speed ref 1 Closed: Preset speed 1 (P-20)		Analog speed ref 1	Digital input 2 closed: Normal accel and decel ramps (P-03 & P-04) Digital input 2open: Fast Stop (P-24)

Note: Under certain P-15 set-ups (P-15 = 2, 8 & 9), analog input 1 is used as a digital input rather than an analog input. This change is carried out automatically within the drives software.

Terminal 6: Open = Off

Terminal 6: Connected to +24V = On (activated)