

Signal sources for ZSW1 im Interface Mode SINAMICS (p2038 = 0)						<1>
Signal	Meaning	Interconnection parameters	[Function diagram] Internal status word	[Function diagram] signal source	Inverted <2>	
ZSW1.0	1 = Ready to power-up	p2080[0] = r0899.0	[2503.7]	[2610]	-	
ZSW1.1	1 = Ready to operate	p2080[1] = r0899.1	[2503.7]	[2610]	-	
ZSW1.2	1 = Operation enabled	p2080[2] = r0899.2	[2503.7]	[2610]	-	
ZSW1.3	1 = Fault present	p2080[3] = r2139.3	[2548.7]	[8060]	-	
ZSW1.4	1 = No coast down active (OFF2 inactive)	p2080[4] = r0899.4	[2503.7]	[2610]	-	
ZSW1.5	1 = No fast stop active (OFF3 inactive)	p2080[5] = r0899.5	[2503.7]	[2610]	-	
ZSW1.6	1 = Power-on inhibit active	p2080[6] = r0899.6	[2503.7]	[2610]	-	
ZSW1.7	1 = Alarm present	p2080[7] = r2139.7	[2548.7]	[8065]	-	
ZSW1.8	1 = Speed setpoint - actual value deviation within tolerance t_off	p2080[8] = r2197.7	[2534.7]	[8010]	-	
ZSW1.9	1 = Control requested <3>	p2080[9] = r0899.9	[2503.7]	[2503]	-	
ZSW1.10	1 = f or n comparison value reached/exceeded	p2080[10] = r2199.1	[2536.7]	[8010]	-	
ZSW1.11	1 = I, M, or P limit not reached <4>	p2080[11] = r1407.7	[2522.7]	[5610] [6060]	✓	
ZSW1.12	1 = Open holding brake	p2080[12] = r0899.12	[2503.7]	[2701]	-	
ZSW1.13	1 = No motor overtemperature alarm	p2080[13] = r2135.14	[2548.7]	[8016]	✓	
ZSW1.14	1 = Motor rotates forwards ($n_{act} \geq 0$) 0 = Motor rotates backwards ($n_{act} < 0$)	p2080[14] = r2197.3	[2534.7]	[8010]	-	
ZSW1.15	1 = No alarm, thermal overload, power unit	p2080[15] = r2135.15	[2548.7]	[8014]	✓	

<1> Used in telegrams 1, 2, 3, 4, 5, 6, 7, 110, 352.

<3> The master system requests the process data.

<2> The ZSW1 is generated using the binector-connector converter (Bl: p2080[0...15], inversion: p2088[0]..p2088[0].15)

<4> Not for VECTOR V/f.

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DO: SERVO, VECTOR

fp_2452_01_eng.vsd

Function diagram

- 2452 -

PROFIdrive - ZSW1 status word interconnection (p2038 = 0)

07.03.07 V02.05.00

SINAMICS S