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HIPERFACE® Encoder Simulator

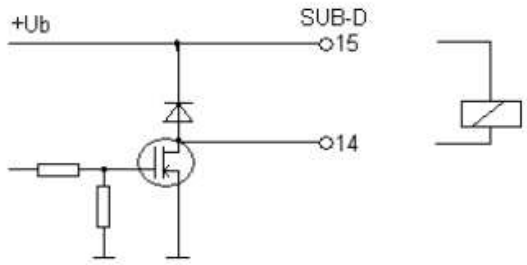
Infonumber: 01027-91

1) Version with differential SIN/COS output

Header – Pin function

Pin Nr.	Bezeichnung
1	GND
2	res.
3	res.
4	Output 1Vpp SIN -
5	Output 1Vpp SIN +
6	Output 1Vpp COS -
7	Output 1Vpp COS +
8	$+U_B$ (7,5VDC to 24VDC)
9	res.
10	res.
11	res.
12	res.
13	res.
14	Digital Output o.D. driver
15	Digital Output o.D. power

Digital Output



Electrical Characteristics

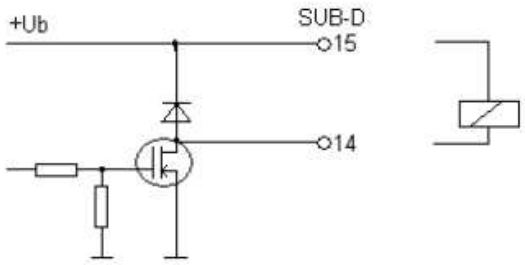
Parameter	Symbol	Min	Typ	Max	Unit
DC Supply Voltage	U_B	7,5	12	24	[V]
DC Supply Current (Standby)	I_B		40		[mA]
Signal frequency	f_S	1		250000	[Hz]
AC-output level (SIN and COS track) (external termination R_L = 120Ω)	u_S		1		[V_{PP}]
DC-Offset level	U_S		2,5		[V]
Angle between SIN and COS track (CCW / CW)	Δφ	-93		+93	[°]
Initialization Time after Power-On / Reset				170	[ms]
Operating Temperature	T_A	0		50	[℃]
IP	IP	00		20	

2) Version with single ended SIN/COS and Reference output using a specific adaptor (Infonr: 01/050)

Header – Pin function

Pin Nr.	Bezeichnung
1	GND
2	res.
3	res.
4	res.
5	Output 1Vpp SIN
6	res.
7	Output 1Vpp COS
8	$+U_B$ (7,5VDC to 24VDC)
9	res.
10	res.
11	Output 2.5VDC RefSIN
12	Output 2.5VDC RefCOS
13	res.
14	Digital Output o.D. driver
15	Digital Output o.D. power

Digital Output



Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
DC Supply Voltage	U_B	7,5	12	24	[V]
DC Supply Current (Standby)	I_B		40		[mA]
Signal frequency	f_S	1		250000	[Hz]
AC-output level (SIN and COS track) (internal termination R_L = 120Ω)	u_S		1		[V_{PP}]
DC-Offset level (RefSIN and RefCOS)	U_S		2,5		[V]
Angle between SIN and COS track (CCW / CW)	Δφ	-93		+93	[°]
Initialization Time after Power-On / Reset				170	[ms]
Operating Temperature	T_A	0		50	[°C]
IP	IP	00		20	

3) Integrated HIPERFACE® Commands by Number

Cmd	0x42	Read Position
	0x43	Set Position
	0x46	Read Counter
	0x47	Increment Counter
	0x49	Reset Counter
	0x4A	Read Data
	0x4B	Store Data
	0x4C	Data Field Status
	0x4D	Create Data Field
	0x4E	Memory Status
	0x4F	Set Access Code
	0x50	Read Encoder Status
	0x52	Read Type Label
	0x53	Encoder Reset
	0x55	Set Encoder Address
	0x56	Read Version

(the encoder simulator is using a fixed baudrate of 9600Baud,8,E,1)