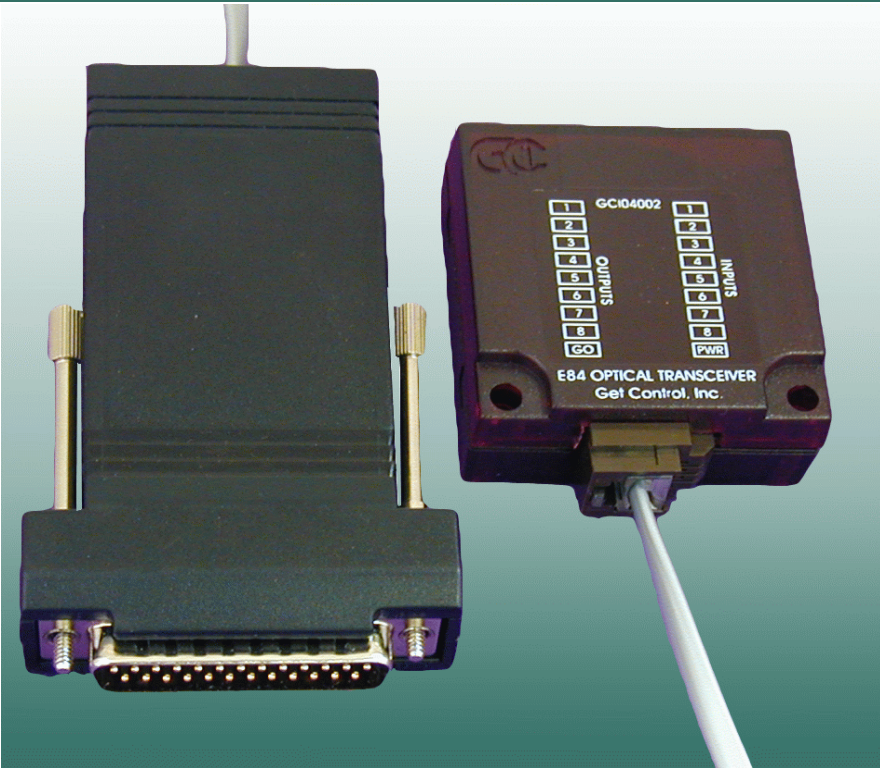


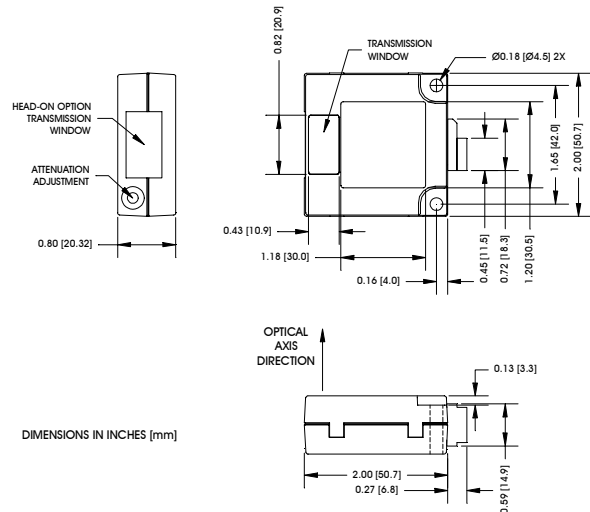
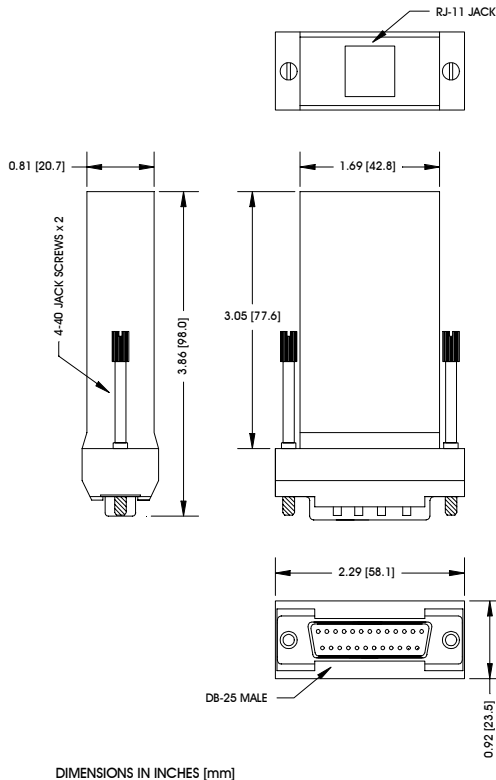
GC104100 E84 RJ-11 Optical Transceiver Data Sheet



Pin	Male DB-25	
	Transceiver Signal	Related E84 Signal
1	IN 1	L_REQ
2	IN 2	U_REQ
3	IN 3	VA ⁴
4	IN 4	READY
5	IN 5	VS_0 ⁴
6	IN 6	VS_1 ⁴
7	IN 7	HO_AVBL
8	IN 8	ES
9	NC ¹	-
10	SELECT	Reserved ²
11	MODE	Reserved ²
12	GO	Reserved ²
13	NC ¹	-
14	OUT 1	VALID
15	OUT 2	CS_0
16	OUT 3	CS_1
17	OUT 4	AM_AVBL ⁴
18	OUT 5	TR_REQ
19	OUT 6	BUSY
20	OUT 7	COMPT
21	OUT 8	CONT
22	NC ¹	-
23	Power	24 Vdc
24	Power GND ³	Signal GND
25	Signal GND ³	Power COM

NOTE 1: Not Connected
 NOTE 2: The SEMI[®] E84 Specification states that Reserved signals may be used to support signals required for interface units.
 NOTE 3: Ground pins 24 and 25 are internally connected together.
 NOTE 4: For use with passive OHS vehicles.

DB-25 Pin Assignments



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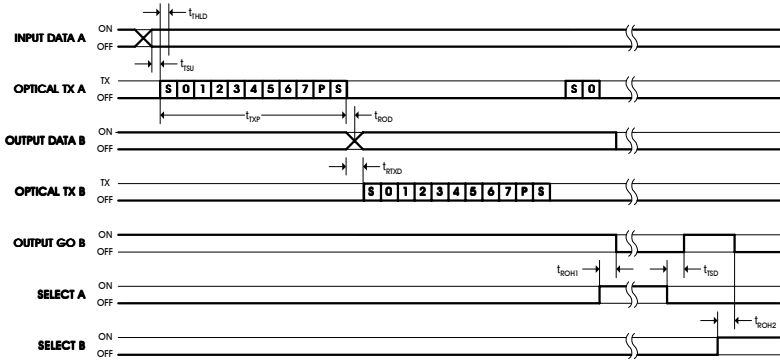
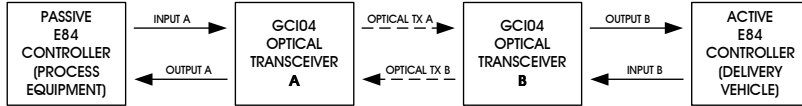
Get Control, Inc.

1530 N. Hobson St. Suite 101
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FAX: 480-539-0307
email: info@getcontrol.com

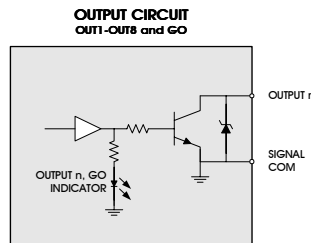
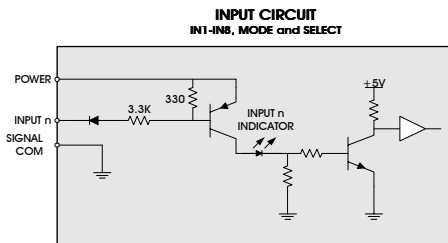
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March 2003

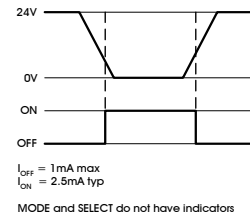


PARAMETER	DESCRIPTION	MIN	MAX	UNIT
t_{TSU}	Input setup time prior to transmission, all inputs	10		μ S
t_{THLD}	Input hold time, all inputs	0		μ S
t_{TXP}	Transmission Time	13	40	mS
t_{ROD}	Delay from valid reception to updated output		10	μ S
t_{RTXD}	Delay from valid reception to transmission		10	μ S
t_{ROH1}	Output hold time from Select A	50	90	mS
t_{TSD}	Transmission start delay from Select A	30	110	mS
t_{ROH2}	Output hold time from Select B	50	90	mS

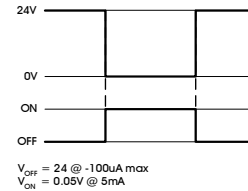
Timing Details



INPUT SWITCHING CHARACTERISTICS



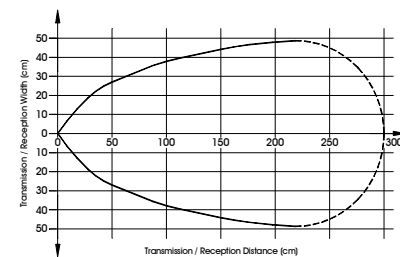
OUTPUT SWITCHING CHARACTERISTICS



Input and Output Sections

Power Source	18 to 30 VDC @ 100 mA max
Input	On 10 mA max, 1.8 VDC max Off 200 μ A max, 30 VDC max
Output	On 25 mA min Sink, 1.8 VDC max Off 100 μ A max Source, 30 VDC max
E84 Termination	Male DB-25 connector w/4-40 male thumbscrews
Interconnect Termination	RJ-11 4-conductor connectors on transceiver and adapter
Compatibility	GCI04001, GCI04002, DMS-HB1 and DM-HB1
Transceiver Dimensions	50mm x 50mm x 20mm (2.0" x 2.0" x 0.80")
Adapter Dimensions	77.6mm x 58.1mm x 23.5mm (3.0" x 2.3" x 0.9")
Transmission Capacity	Input: 8 bit Output: 8 bit
Transmission Method	Half-Duplex Two-Way Transmission
Transmission Time	Less than 40 milliseconds
Modulation Type	Pulse Modulation
Verification Method	Parity Check
Projection Element	Infrared LED, 875 nm, 120 mW/sr
Transmission Distance	1 meter (3' 4")
Reception Element	PIN Diode, 880 nm, 500 mW/cm ²

Specifications



Optical Transmission Area

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