

LIGO Laboratory / LIGO Scientific Collaboration

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Advanced LIGO

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Beckhoff Breakout Box
Test Procedure

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LIGO Scientific Collaboration

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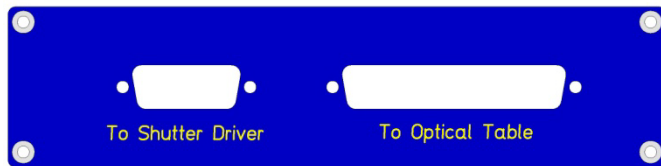
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1 Overview

This test procedure applies to the Beckhoff breakout box LIGO-D1200168. This Box splits the cable from the breakout box into a connector to the shutter driver and a connector to the Hartman optical table at the end station.



2 Setup

Using connector breakouts check all connections from 37 pin connector input to the 37 pin output and the 15 pin output.

2.1 Requirements

**FROM
37 pin Beckhoff
to 37 pin Panel**

Beckhoff pin #	Optical table pin#	Connected
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	
9	9	
10	10	
11	11	
12	12	
13	13	
14	14	
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	
21	21	
22	22	
23	23	
24	24	
25	25	
26	26	
27	27	
28	28	
29	29	
30	30	
31	31	
32	32	
33	33	

FROM
37 pin Beckhoff
to 37 pin Panel

	Optical	
Beckhoff	table	
pin #	pin#	Connected
34	34	
35	35	
36	36	
37	37	

FROM
37 Pin Beckhoff
to 15 Pin Shutter
Driver

	to driver	Beckhoff	
pin #	pin#	Connected	
1	5		
2	6		
3	7		
4	8		
5	29		
6	31		
7	30		
8	19 (gnd)		
9	24		
10	25		
11	26		
12	27		
13	10		
14	12		
15	11		