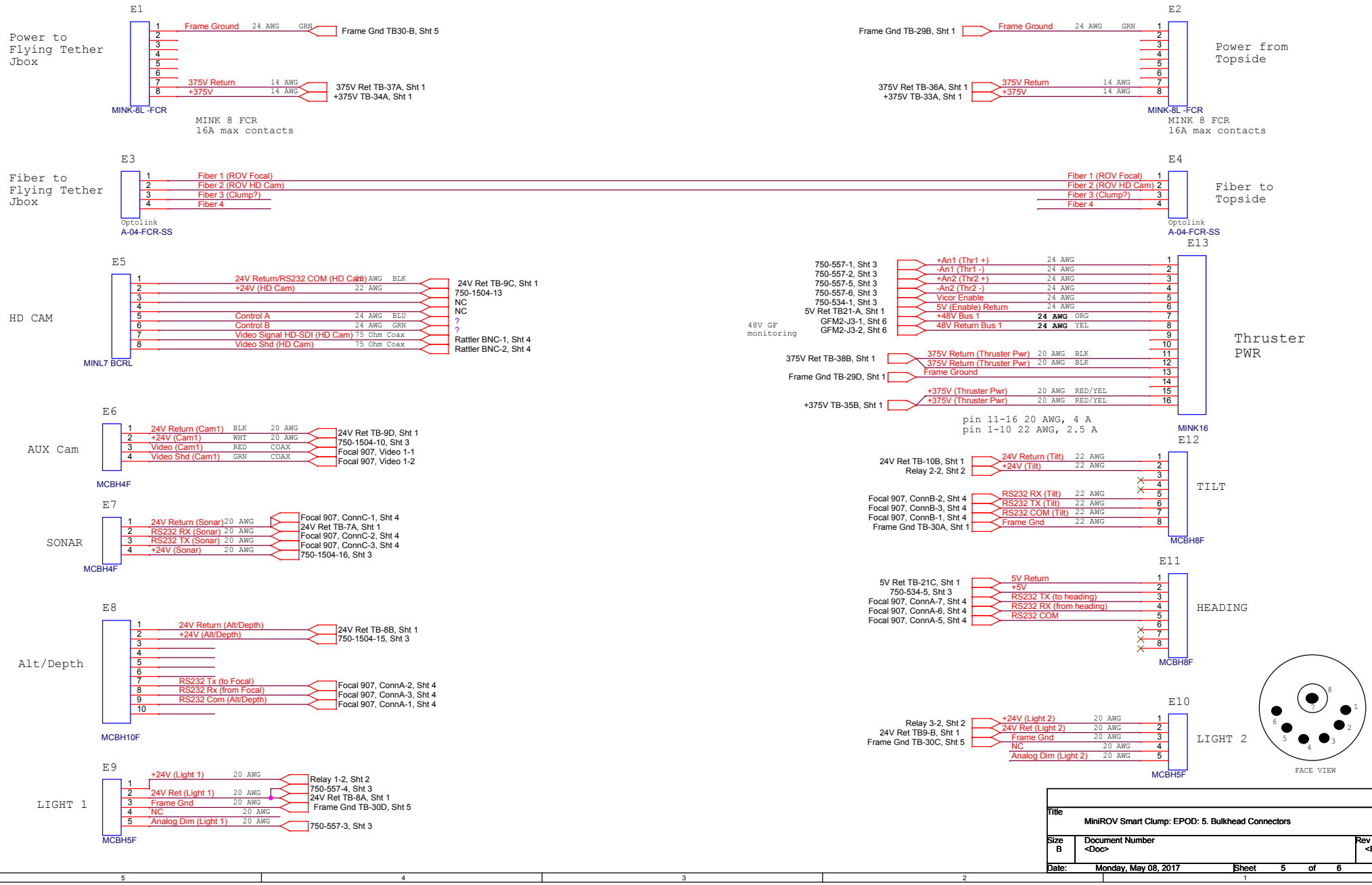
E1
Power to Flying Tether Jbox
1 Frame Ground 24 AWG GRN Frame Gnd TB30-B, Sht 5
7 375V Return 14 AWG 375V Ret TB-37A, Sht 1
8 +375V 14 AWG +375V TB-34A, Sht 1
MINK-8L -FCR
MINK 8 FCR
16A max contacts
E2
Frame Gnd TB-29B, Sht 1 Frame Ground 24 AWG GRN
375V Ret TB-36A, Sht 1 375V Return 14 AWG
+375V TB-33A, Sht 1 +375V 14 AWG
Power from Topside
MINK-8L -FCR
MINK 8 FCR
16A max contacts
E3
Fiber to Flying Tether Jbox
1 Fiber 1 (ROV Focal)
2 Fiber 2 (ROV HD Cam)
3 Fiber 3 (Clump?)
4 Fiber 4
Optolink
A-04-FCR-SS
E4
Fiber 1 (ROV Focal) 1
Fiber 2 (ROV HD Cam) 2
Fiber 3 (Clump?) 3
Fiber 4 4
Fiber to Topside
Optolink
A-04-FCR-SS
E5
HD CAM
1 24V Return/RS232 COM (HD Cam) 22 AWG BLK 24V Ret TB-9C, Sht 1
2 +24V (HD Cam) 22 AWG 750-1504-13
3 NC
4 NC
5 Control A 24 AWG BLU ?
6 Control B 24 AWG GRN ?
7 Video Signal HD-SDI (HD Cam) 75 Ohm Coax Rattler BNC-1, Sht 4
8 Video Shd (HD Cam) 75 Ohm Coax Rattler BNC-2, Sht 4
MINL7 BCRL
E13
750-557-1, Sht 3 +An1 (Thr1 +) 24 AWG 1
750-557-2, Sht 3 -An1 (Thr1 -) 24 AWG 2
750-557-5, Sht 3 +An2 (Thr2 +) 24 AWG 3
750-557-6, Sht 3 -An2 (Thr2 -) 24 AWG 4
750-534-1, Sht 3 Vicor Enable 24 AWG 5
5V Ret TB21-A, Sht 1 5V (Enable) Return 24 AWG 6
48V GF monitoring GFM2-J3-1, Sht 6 +48V Bus 1 24 AWG ORG 7
GFM2-J3-2, Sht 6 48V Return Bus 1 24 AWG YEL 8
9
10
375V Ret TB-38B, Sht 1 375V Return (Thruster Pwr) 20 AWG BLK 11
375V Return (Thruster Pwr) 20 AWG BLK 12
Frame Gnd TB-29D, Sht 1 Frame Ground 13
14
+375V TB-35B, Sht 1 +375V (Thruster Pwr) 20 AWG RED/YEL 15
+375V (Thruster Pwr) 20 AWG RED/YEL 16
pin 11-16 20 AWG, 4 A
pin 1-10 22 AWG, 2.5 A
Thruster PWR
MINK16
E6
AUX Cam
1 24V Return (Cam1) BLK 20 AWG 24V Ret TB-9D, Sht 1
2 +24V (Cam1) WHT 20 AWG 750-1504-10, Sht 3
3 Video (Cam1) RED COAX Focal 907, Video 1-1
4 Video Shd (Cam1) GRN COAX Focal 907, Video 1-2
MCBH4F
E12
24V Ret TB-10B, Sht 1 24V Return (Tilt) 22 AWG 1
Relay 2-2, Sht 2 +24V (Tilt) 22 AWG 2
3
4
Focal 907, ConnB-2, Sht 4 RS232 RX (Tilt) 22 AWG 5
Focal 907, ConnB-3, Sht 4 RS232 TX (Tilt) 22 AWG 6
Focal 907, ConnB-1, Sht 4 RS232 COM (Tilt) 22 AWG 7
Frame Gnd TB-30A, Sht 1 Frame Gnd 22 AWG 8
TILT
MCBH8F
E7
SONAR
1 24V Return (Sonar) 20 AWG Focal 907, ConnC-1, Sht 4
2 RS232 RX (Sonar) 20 AWG 24V Ret TB-7A, Sht 1
3 RS232 TX (Sonar) 20 AWG Focal 907, ConnC-2, Sht 4
4 +24V (Sonar) 20 AWG Focal 907, ConnC-3, Sht 4
750-1504-16, Sht 3
MCBH4F
E11
5V Ret TB-21C, Sht 1 5V Return 1
750-534-5, Sht 3 +5V 2
Focal 907, ConnA-7, Sht 4 RS232 TX (to heading) 3
Focal 907, ConnA-6, Sht 4 RS232 RX (from heading) 4
Focal 907, ConnA-5, Sht 4 RS232 COM 5
6
7
8
HEADING
MCBH8F
E8
Alt/Depth
1 24V Return (Alt/Depth) 24V Ret TB-8B, Sht 1
2 +24V (Alt/Depth) 750-1504-15, Sht 3
3
4
5
6
7 RS232 Tx (to Focal) Focal 907, ConnA-2, Sht 4
8 RS232 Rx (from Focal) Focal 907, ConnA-3, Sht 4
9 RS232 Com (Alt/Depth) Focal 907, ConnA-1, Sht 4
10
MCBH10F
E10
Relay 3-2, Sht 2 +24V (Light 2) 20 AWG 1
24V Ret TB9-B, Sht 1 24V Ret (Light 2) 20 AWG 2
Frame Gnd TB-30C, Sht 5 Frame Gnd 20 AWG 3
NC 20 AWG 4
Analog Dim (Light 2) 20 AWG 5
LIGHT 2
MCBH5F
FACE VIEW
E9
LIGHT 1
1 +24V (Light 1) 20 AWG Relay 1-2, Sht 2
2 24V Ret (Light 1) 20 AWG 750-557-4, Sht 3
3 Frame Gnd 20 AWG 24V Ret TB-8A, Sht 1
4 NC 20 AWG Frame Gnd TB-30D, Sht 5
5 Analog Dim (Light 1) 20 AWG 750-557-3, Sht 3
MCBH5F
Title
MiniROV Smart Clump: EPOD: 5. Bulkhead Connectors
Size B
Document Number
<Doc>
Rev
<RevCod
Date: Monday, May 08, 2017
Sheet 5 of 6