F6 1.5 A

SR201 ETHERNET
RELAY CONTROLLER

SR201-P1
MODULAR PLUG
RJ45

CH2.NO
CH2.COM
CH2.NC
CH1.NO
CH1.COM
CH1.NC

PWR

RELAY-TB

CT-P17
MODULAR PLUG
Molex
0449150001

CT-P16
1 +VIN (9-36VDC)
2 GND
1843790

CT-P7
MODULAR PLUG
Molex
0449150001

WHT/ORG#24
ORG#24
WHT/GRN#24
GRN#24

CT-P6
MODULAR PLUG
Molex
0449150001

WHT/ORG#24
ORG#24
WHT/GRN#24
GRN#24

1 Red +24 VDC
2 Black VDC Return
7-60 VDC Input

F5 1.5 A

Black VDC Return

Red +24 VDC

F3 8A +24V (Light 1)

SPLICE WHERE APPROPRIATE

24V Ret/Serial Gnd (Light 1)
->RxD/A+
<-TxD/B-

C5

	BLK#20	VOUT	
	WHT#20	GND	
	RED#20	RS485A	
	GRN#20	RS485B	
DVL_TX+	WHT/ORG#24	ORG#20	ETH.TX+
DVL_TX-	ORG#24	BLU#20	ETH.TX-
DVL_RX+	WHT/GRN#24	WHT/BLK#20	ETH.RX+
DVL_RX-	GRN#24	RED/BLK#20	ETH.RX-

MCBH8F

LIGHT 1
or
A125 DVL

F4 8A +24V (Light 2)

24V Ret/Serial Gnd (Light 2)
->RxD/A+
<-TxD/B-

C6

	BLK#20	VOUT	
	WHT#20	GND	
	RED#20	RS485A	
	GRN#20	RS485B	
OAK.TX+	ORG#20	ETH.TX+	
OAK.TX-	BLU#20	ETH.TX-	
OAK.RX+	WHT/BLK#20	ETH.RX+	
OAK.RX-	RED/BLK#20	ETH.RX-	

MCBH8F

LIGHT 2
or
SL Laser
Projector

Frame Gnd (Light 1)
Frame Gnd (Light 2)

LEFT CAMERA

J216
13 SOCKET
Subconn
DBH13FNM

BLK#18	LEFT_GND	
ORG#18	LEFT_GND	
WHT#18	LEFT_RX	
BRN#24	GIGE	
WHT/BRN#24	GIGE	
BLU#24	GIGE	
WHT/BLU#24	GIGE	
ORG#24	GIGE	
WHT/ORG#24	GIGE	
GRN#24	GIGE	
WHT/GRN#24	GIGE	
RED#18	LEFT+12V	
GRN#18	LEFT_TX	

CT-P1
MODULAR PLUG
Molex
0449150001

WHT/ORG#24
ORG#24
WHT/GRN#24
BLU#24
WHT/BLU#24
GRN#24
WHT/BRN#24
BRN#24

RIGHT CAMERA

J215
13 SOCKET
Subconn
DBH13FNM

BLK#18	RIGHT_GND	
ORG#18	RIGHT_GND	
WHT#18	RIGHT_RX	
BRN#24	GIGE	
WHT/BRN#24	GIGE	
BLU#24	GIGE	
WHT/BLU#24	GIGE	
ORG#24	GIGE	
WHT/ORG#24	GIGE	
GRN#24	GIGE	
WHT/GRN#24	GIGE	
RED#18	RIGHT+12V	
GRN#18	RIGHT_TX	

CT-P2
MODULAR PLUG
Molex
0449150001

WHT/ORG#24
ORG#24
WHT/GRN#24
BLU#24
WHT/BLU#24
GRN#24
WHT/BRN#24
BRN#24

Connectech
Xtreme 8 GBE switch

CT-P5
MODULAR PLUG
Molex
0449150001

CT-P3
MODULAR PLUG
0449150001
Molex

CT-P4
MODULAR PLUG
0449150001
Molex

??? 300vdc In,
24vdc, ??watts
out

VDC Return

+375 VDC

Earth

EN
VIN
GND
GND
VOUT

#2858 Pololu 5V, 2.5A D24V22F5
Install R/A CGRID 5-Pin to Board

Lancer ST-Dry
500-BST-S1-B02-000

C4

Unused Fiber Port

Black

Red

C3

Seacon MINK 10L BCR

TO ROV

RS-485 Serial 9600 Baud RS-485 Serial 9600 Baud

Moxa 5232I

12-48 VDC
280mA@12vdc

J41
RJ-45 Ethernet

J42
CON3

Orng/Wht
Org
Grn/Wht
Grn

+24V (Moxa)
24V Return (Moxa)
Frame Gnd (Moxa)

RASPBERRY PI ZERO W
W/ WAVESHARE ETH & USB HAT

USB PWR

RJ-45 Ethernet

USB HOST

WIRING TBD

J234

VN100
VECTORNAV
AHRS

CON10

M B A R I	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road, Moss Landing, CA 95039		
	Title: Mesobot Stereo Cam Mux (MODIFIED)		Project: COMPAS/BIL
Engineer: EJM	Size: B	Document Number: 100221828	Part Number: N/A
Designer: EJM	Date: Monday, March 20, 2023	Project File: 102284	Rev: B
		Sheet 1 of 8	

MCIL8M on
SOOW #20/8C

DVL A125
Waterlinked DVL
W/ STOCK PU CABLE

DVL A125

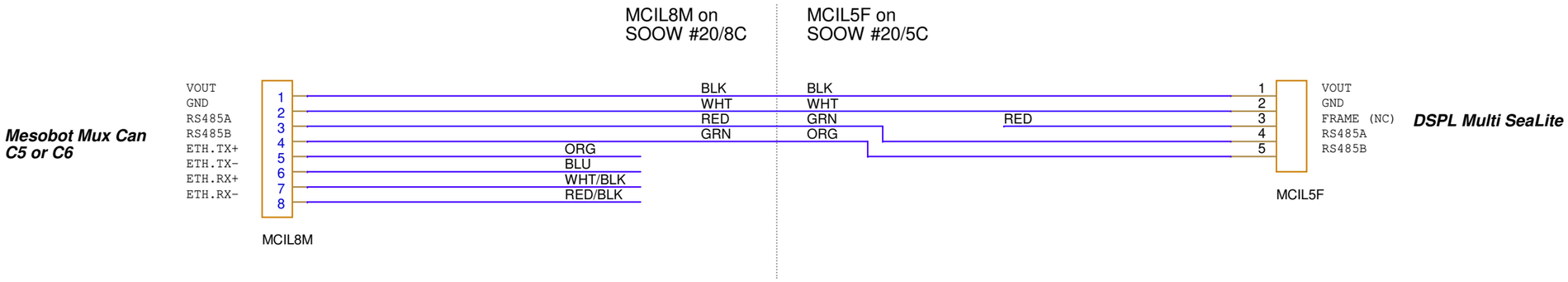
MCIL8M			DVL A125	
VOUT	1	BLK	RED	POSITIVE (10-30V)
GND	2	WHT	BLK	NEGATIVE/GROUND
RS485A	3	RED		
RS485B	4	GRN		
ETH.TX+	5	ORG	ORG/WHT	ETH TX+
ETH.TX-	6	BLU	ORG	ETH TX-
ETH.RX+	7	WHT/BLK	GRN/WHT	ETH RX+
ETH.RX-	8	RED/BLK	GRN	ETH RX-
			BRN/WHT	UART TX
			BRN	UART RX

SPLICE

M B A R I

Monterey Bay Aquarium Research Institute
7700 Sandholdt Road, Moss Landing, CA 95039

Engineer	Size	Document Number	Title	Project
E|M	A	100221828	MiniROV DVL A125 Wiring	902204
Designer			**Part Number**	**Project File**	**Rev**
E|M			002	X:\902204..\MiniCompasBilSled	A
			Date: Monday, March 20, 2023	Sheet 2 of 8	



NOTES

1. Overall Length 3 FT

MBARI	*Monterey Bay Aquarium Research Institute* 7700 Sandholdt Road, Moss Landing, CA 95039			
	Title: MiniROV MLCAN Lamp Adaptor Cable			Project: 902204
Engineer: E|M	Size: A	Document Number: 100221828	Part Number: 100221828-004	Project File: X:\902204..\MiniCompasBitSled	Rev: A
Designer: E|M	Date: Monday, March 20, 2023		Sheet 3 of 8	