Schrader Valve for optional
nitrogen purge, 5 PSI max

J1: Main IO Connector

2X ⌀ 4.10 ⍈ 6.00

3X 105.00

2X 51.00
2X 41.00
2X 31.00

0

J3: External Left LED
J2: External Right LED

4X M5x0.8
Solid Body Inserts

132.00
110.00
47.00

41.00
33.00

0

2x M3x0.5 tapped holes
Repeated on other side

125.00
70.00

63.75

2X 32.25

0

1/4-20" Tripod Mount

Carnegie Robotics	PART NAME: MultiSense-S7	SIZE: A
#10 40TH STREET PITTSBURGH, PA 15201	PART NUMBER: 100-00012	REV: 1
	DRAWING NAME: Interface Specification	
DRAWN BY / CHKD BY / CREATED		DO NOT SCALE
		SHEET 1 OF 2

Connector	MultiSense-SL side	Mate, matching plating	Mate, stock plating
J1	801-009-07MT9-19PA	801-007-16MT9-19SA	801-007-16M9-19SA
J2 & J3	801-009-07MT6-4SA	801-007-16MT6-4PA	801-007-016M6-4PA

Notes:

24v input power bus accepts 18v to 48v nominal voltages.

MulitSense-S7 is delivered with Glenair "1000 hour grey" [MT] coating on all connectors. This coating is preferred for mating cables, but is generally not stocked by Glenair. If stocked connectors are preferred, order mates with "Electroless Nickel" [M].

Reserved pins should be left disconnected in the exterior mating harness.

A: Power Bundle ——

B: 1000base ethernet ——

C: OPTO Bundle ——

D: Chassis Ground ——

J1
Main IO
Connector

LED Harness ——

J2
LED Connector

LED Harness ——

J3
LED Connector
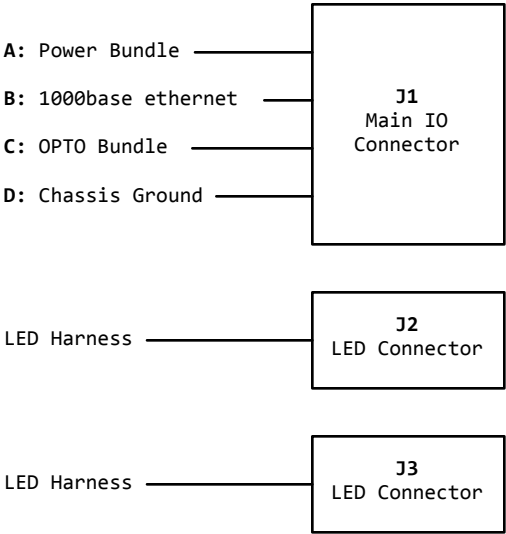
Pin	Function	AWG	Bundle	Color
J1-1	Reserved	-	-	-
J1-2	Ground	22	A	Black
J1-3	Reserved	-	-	-
J1-4	Reserved	-	-	-
J1-5	Reserved	-	-	-
J1-6	Opto Rx A	22	C	Blue
J1-7	Opto Rx K	22	C	Green
J1-8	Chassis	22	D	Green
J1-9	1000base	24	B	Brown
J1-10	1000base	24	B	Green
J1-11	1000base	24	B	Blue
J1-12	24v	22	A	Brown
J1-13	1000base	24	B	Wht/Brown
J1-14	1000base	24	B	Wht/Green
J1-15	1000base	24	B	Wht/Blue
J1-16	1000base	24	B	Wht/Orange
J1-17	Opto Tx C	22	C	Yellow
J1-18	Opto Tx E	22	C	Orange
J1-19	1000base	24	B	Orange
J2-1 / J3-1	LED +	22	-	Yellow
J2-2 / J3-2	LED -	22	-	Grey

Carnegie Robotics™

#10 40TH STREET
PITTSBURGH, PA 15201

PART NAME	MultiSense-S7	SIZE A
PART NUMBER	100-00012	REV 1
DRAWING NAME	Interface Specification	

DRAWN BY	CHKD BY	CREATED	DRAWING IS THE SOLE PROPERTY OF CARNEGIE ROBOTICS LLC	DO NOT SCALE
			ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CRL IS PROHIBITED	SHEET 2 OF 2