

# PIO Optical Transceiver

POT (PIO Optical Transceiver) serial sensors are the preferred solution for E84 optical communications. There are fully compliant and are compatible with other manufacturers' sensors that conform to the SEMI Standard E84.

- SEMI® E84 compatible parallel input and output sections.
- Compatibility with HOKUYO DMS and DMJ optical data transmission devices.
- Status indicator LEDs for input, output, and go signals and optical transceiver power.
- Higher quality and lower cost compared to competing products.
- POT with RJ-11 interfaces. RJ-11 allows greater flexibility for installment of the transceivers.



### Ordering Information:

■ HEAD:			
Model Number	Туре		
POT-GB1	Head-on		
POT-HB1	Side-on		
CONNECTOR:			
Model Number	Туре		
POT-CN3-	ZORECEPTION STANDBY/METRIC SCREW		
POT-CN4-	RECEPTION STANDBY/INCH SCREW (#4-40)		
CABLES			
Model Number	Туре		
POT-RC-500	500cm length RJ-11 Cable.		
POT-RC-800	800cm length RJ-11 Cable.		

## Dimensions





# Input

Output



## Male DB25 Pin Assignments

Pin	Functions	Related	Pin		Functions	Related E84
		E84 Signal				Signal
1	IN1	L_REQ	14		OUT 1	VALID
2	IN2	U_REQ	15		OUT 2	CS_0
3	IN3	VA <sub>4</sub>	16		OUT 3	CS_1
4	IN4	READY	17		OUT 4	AM_AVBL4
5	IN5	VS_04	18		OUT 5	TR_REQ
6	IN6	VS_14	19		OUT 6	BUSY
7	IN7	HO_AVBL	20		OUT 7	COMPT
8	IN8	ES	21		OUT 8	CONT
9	NC		22		V+	Power 24
						Vdc
10	SELECT		23		V+	Power 24
						Vdc
11	MODE		24		GNDCOM	0V
12	GO		25		СОМ	0V
13	NC					
* It is short circuited between Pin .22 and Pin 23						
% It is short circuited between Pin .24 and Pin .25						
<b>**</b> MODE is available only for POT CN1 and POT CN2						

## Specifications

Item	Description			
Power	24VDC +/-10%			
Current Consumption	100mA max			
Ambient temperature	-10 to 50 deg C			
Ambient humidity	85%RH or less(with no freezing			
	condensation)			
Protective structure	IP40			
Ambient illumination	4000 lx or less			
Output Current	50mA max			
Transmission	Distance 1M			
Indicator	Head:			
	POW: Lit when power turns ON			
	MODE: Lit when passive reception mode			
	NS Lit when RJ11 communication is normal			
	Connector:			
	IN: Input 8 bit LED			
	OUT: Output 8 bit LED			
	POW Lit up when power turns ON			
	NS Lit when RJ11 communication is normal			
	GO: Lit when optical transmission is normal			



Circuit Diagrams