

## PRODUCT BULLETIN

# The Differences of TRANS Family Members

The innovative TRANS sensor family created by IR-TEC offers a variety of solutions for all types of applications that require occupancy sensing based control or daylight harvesting control. In addition to the interchangeable mounting and lens options, each TRANS family member features unique functionality and output for various control applications.



## A. Line Voltage Sensors

Line Voltage Sensors are designed to operate with line voltage power, and provide direct switching control of the connected load with or without ambient light sensing (ALS) capability. The table below outlines basic specifications, control design, and applications notes of manual setting line voltage sensors to allow for ease of product selection.

### Occupancy Sensors

Model No.	Setting	Tech	ALS	Power	Output	HS*	Connection	Feature & Control
<b>LOD-500Sxx</b>	MODE TIME DIM	PIR	•	100-277 VAC	SLV AO		Wire Lead	8 control modes selectable 0-10V bi-level dimming control
<b>LOD-509Sxx</b>	MODE TIME DIM	PIR	•	100-277 VAC	SLV AO	•	Wire Lead	8 control modes selectable SmartDIM continuous dimming control
<b>LOS-500Nxx</b>	TIME	PIR		100-277 VAC	SLV		Wire Lead	All time ON/OFF switching
<b>LOS-510Nxx</b>							Push-in Terminal	
<b>LOS-500Sxx</b>	TIME LUX	PIR	•	100-277 VAC	SLV		Wire Lead	ON/OFF switching with ALS override
<b>LOS-509Sxx</b>						•		
<b>LOS-510Sxx</b>							Push-in Terminal	
<b>LRD-509Sxx</b>	As per remote	PIR	•	100-277 VAC	SLV AO	•	Wire Lead	Multi mode, multi-level/SmartDIM dimming control via remote programmer

### Daylight Sensors

Model No.	Setting	Tech	ALS	Power	Output	HS*	Connection	Feature & Control
<b>LPS-509Sx</b>	TIME LUX	ALS	•	100-277 VAC	SLV	•	Wire Lead	7 level LUX and TIME selection Standalone ON/OFF control

\*HS denotes sensor with Hybrid Switching

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### B. Low Voltage Sensors

Low Voltage Sensors are designed to operate with low voltage power, and provide various outputs for versatile control applications. The table below outlines basic specifications, control design, and applications notes to allow for ease of product selection.

#### Occupancy Sensors

Model No.	Setting	Tech	ALS	Power	Output	Connection	Feature & Control
<b>BOA-516Sxx</b>	MODE TIME DIM	PIR	•	12-24 VDC	AO	Push-in Terminal	8 control modes selectable 0-10V bi-level dimming control
<b>BOA-517Sxx</b>	TIME LUX	PIR	•	12-24 VDC	AO DO	Push-in Terminal	0-10V bi-level dimming control with 30% low dim
<b>BOM-514Sxx</b>	TIME LUX	PIR	•	5-12 VDC	DO2	Push-in Terminal	For multi-channel bi-level or daylight harvesting control with, or without BEMS
<b>BOM-515Sxx</b>				12-24 VDC			
<b>BOS-515Nxx</b>	ON OFF	PIR		12-24 VAC/DC	IDC	Push-in Terminal	For occupancy based lighting, HVAC, or BEMS control
<b>BOS-515Sxx</b>	TIME LUX	PIR	•	12-24 VAC/DC	IDC	Push-in Terminal	For occupancy based lighting and BEMS control
<b>COS-516Sxx</b>	MODE TIME DIM	PIR	•	12-48 VDC	RDP	Push-in Terminal	8 control modes selectable For LED lighting with CV driver

#### Daylight Sensors

Model No.	Setting	Tech	ALS	Power	Output	Connection	Feature & Control
<b>BPD-500Sx</b>	LUX	ALS	•	12-24 VDC	IDC	Wire Lead	Provide IDC for ON/OFF control and AO for BMS control
<b>BPD-510Sx</b>					AO	Push-in Terminal	
<b>BPD-502Sx</b>	DIM	ALS	•	12-24 VDC	IDC	Wire Lead	Provide IDC for ON/OFF switching and AO for SmartDIM control
<b>BPD-512Sx</b>					AO	Push-in Terminal	

**Legends** SLV: Switched Line Voltage  
DO: Digital Output  
HS: Hybrid Switching

AO: Analog Output (0-10V)  
DO2: Digital Output x 2

IDC: Isolated Dry Contact  
RDP: Regulated DC Power