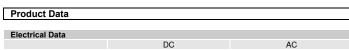
### Photoelectric background suppression



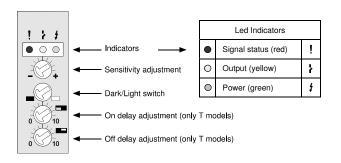
12 - 240 V dc / 20 - 240 V ac 10 - 30 V dc Supply Voltage +/- 15% Voltage ripple Reverse polarity protected Yes Short circuit protected Yes Current consumption < 65 mA < 70 mA 1 open / 1 close, 240 V ac / 3 A Output relay Output transistor 200 mA / 30 V dc

<b>Environmental Data</b>			
Temperature, operation		-20 to +55 °C	
Sealing class		IP 67	
Approvals	ac	C€	
	dc	Œ	

Available Models					
	Model	Supply Voltage	Output	Time Delay	Sensing Range
Diffuse Proximity (background suppression)	SPBS 2600 T	10-30 V dc	NPN / PNP	On/Off Delay	0 – 0,5 m, adjustable*
	SPBS 2600			-	
	SPBS 2900 T	12 – 240 V dc 20 – 240 V ac	Relay	On/Off Delay	
	SPBS 2900			-	
	SPBS 2601 T	10-30 V dc	NPN / PNP	On/Off Delay	0 – 1,5 m, adjustable*
	SPBS 2601			-	
	SPBS 2901 T	12 – 240 V dc 20 – 240 V ac	Relay	On/Off Delay	
	SPBS 2901			=	
	SPBS 2602 T	10-30 V dc	NPN / PNP	On/Off Delay	0-2 m, adjustable*
	SPBS 2602	10-30 V uc		-	
	SPBS 2902 T	12 - 240 V dc 20 - 240 V ac	Relay	On/Off Delay	
	SPBS 2902			=	
* NI=+= . NA====	wad against matt	leite A 4			

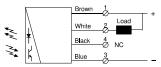
Note: Measured against matt white A4 paper.

#### Illustration

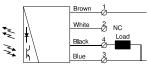


# Connection

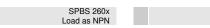
## Wiring Diagrams

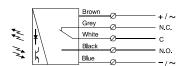






NC: Do not connect wire NC: Do not connect wire





SPBS 290x Relay output

SPBS 260x Load as PNP

Connection Wires/Pins				
	Cable	4 pin, M12 plug		
Supply + / Supply ac	Brown	Pin 1 / Brown		
Supply - / Supply ac	Blue	Pin 3 / Blue		
Output NC	Grey	-	( 1 )	
Output NO	Black	-	(•2 4•)	
Output COM	White	-	•	
Output PNP	Black	Pin 4 / Black	0	
Output NPN	White	Pin 2 / White	Sensor plug	

Website: www.telcosensors.com E-Mail: info@telcosensors.com

Made in Denmark



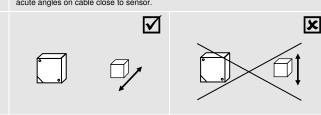
# Mounting & Alignment Mounting & Installation

Telco;

Align by moving sensor horizontally and vertically until the output changes when the target object is present (refer to Output Logic table). 2

Position the sensor pointing at the target object.

Fasten the sensor securely using the enclosed mounting bracket and hardware. Avoid 3 acute angles on cable close to sensor



### Adjustments

4

Output Mode Selection		
The output mode can be selected via an integral light/dark switch. Refer to Output Logic table for output mode reference.		
Light Operated (N.O.)	Enables the output to be active when there is an object present.	Turn switch to full clockwise position
Dark Operated (N.C.)	Enables the output to be inactive when there is an object present.	Turn switch to full counter clockwise position

Output Logic				
Detection	Output mode	Relay Output	Transistor Output	Output indicator
Object present	Dark operated (N.C.)	CNONC	Open	Off
	Light operated (N.O.)	C NO NC	Closed	On
Object absent	Light operated (N.O.)	CNONC	Open	Off
	Dark operated (N.C.)	C NO NC	Closed	On

### Sensitivity Adjustment

Proceed with the following steps:

1	Start with the sensitivity at minimum by turning the potentiometer to full counter clockwise position.
2	Place target object in correct position to the SPBS and at the required distance.
3	Increase sensitivity slowly from minimum (full counter clockwise) until the yellow output indicator changes. Increase a little further until the red Insufficient Signal indicator is off. If the output has not changed, attempt to move sensor closer to target object and repeat procedure.
4	Remove target object. If output changes, the sensitivity is adjusted correctly. If the output does not change then proceed to step 5.
5	Place target object in correct position. Decrease the sensitivity by turning the gain potentiometer counter clockwise until the red Insufficient Signal indicator is on.
6	Remove target object. If the output changes the sensitivity is adjusted to suit the target but the adjustment is very delicate and not advisable.

### Time Delay Adjustment

If the output does not change the target object is placed too close to surrounding

The on delay enables output signal to only activate if an object in the detection area is present for the adjusted time period. (In Light operated mode)

The off delay enables output signal to remain activated for the adjusted time period.

objects. Please contact your vendor for further information.

The time delay is adjustable between 0 - 10 sec.

Increase or decrease on delay by turning potentiometer clockwise or On delay counter clockwise respectively. Increase or decrease off delay by turning potentiometer clockwise or Off delay counter clockwise respectively