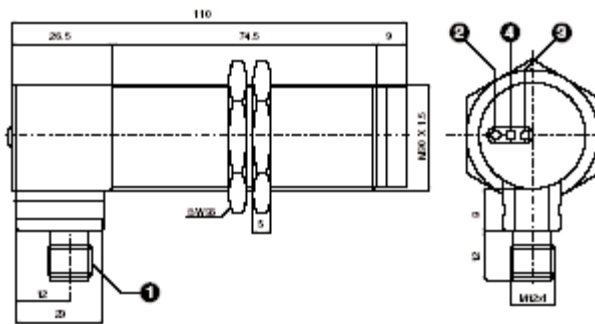


# M30 100m (325') Ultra Harsh Duty Self Contained Photo-Electric Receiver



**M30 100m (325') Range  
Harsh Duty Self Contained**

**Ultra Harsh Photo Electric Sensor**

**Car Wash, Industrial, Long Distance**

**5 wire 10-30VDC**

**3 LED's for set up & diagnostics**

**Alarm Output-signal, dirty optics & misalignment**

**M12 right angle connector**

**IP67 protection degree**

**Protection from electrical damages**

**Metal housing-NBT**

- 1** K3 M12 4 pin connector
- 2** Green LED (supply)
- 3** Yellow LED (output state)
- 4** Red LED (alignment)

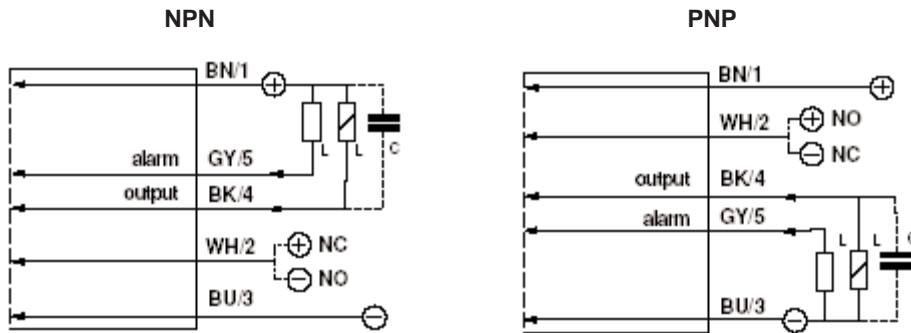
## Parts Matrix

photo electric sensor series	P
receiver (alarm output)	RE
100 meter range (325')	100
M30 30mm body diameter	9
metal housing-NBT	B
PNP output	P
NPN output	N
NO+NC normally open/normally closed	3
straight optics	T
M12 5 Pin 12mm connector	B1
range (mm)	100m

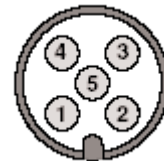
## Part Number Specifications

PRE1009BN3TB1	RECEIVER-NPN NO+NC B1
PRE1009BP3TB1	RECEIVER PNP NO+NC B1

Wiring Diagram



Connector Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance $S_n$	100m (325')
Emission	infrared (880nm)
Differential Travel	10%
Repeat Accuracy R	2%
Operating Voltage $U_b$	10-30VDC
Ripple $U_{pp}$	<10% $U_b$
Check Threshold	-
Check Voltage	-
Check Current	-
No-load Supply	20mA
Load Current $I_a$	<400mA 50mA (alarm output)
Leakage Current	<10uA
Voltage Drop $U_d$	1.5V max.(400mA) 1v (50mA)
Output Type	PNP or NPN NO + NC
Response Time	ON state=500us OFF state=400us
Time Delay Before Availability $t_v$	100ms
Supply Electrical Protections	polarity reversal, transient
Output Electrical Protections	short circuit protection (autoreset)
Ambient Temperature $T_a$	-25--+70C
Temperature Drift	+/- 10% SR
Protection Degree (DIN 40 050)	IEC IP67
LED Indicators	green, yellow, red,
Housing Material	nickel plated brass
Lenses Material	PMMA
Tightening Torque	100Nm
Weight (approximate)	250g