

## PHOTOELECTRIC SENSOR RANGE

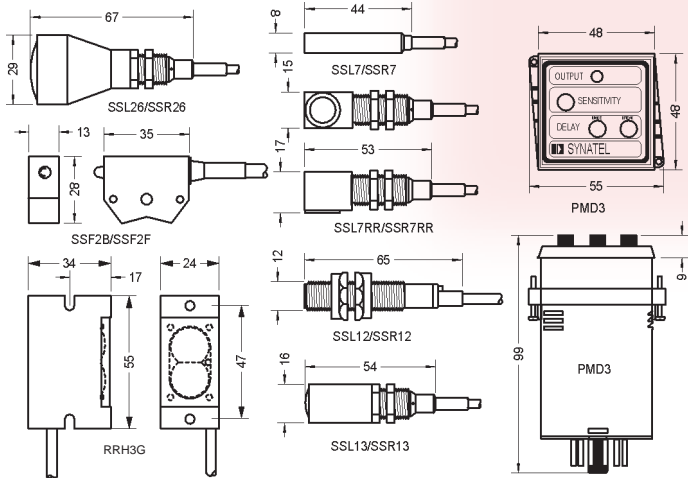
Synatel produce a range of photoelectric sensors, in different styles and packages, to suit a wide variety of applications. The sensors are available as; throughbeam (object 'breaks' the sensing beam), reflex (object reflects light back to sensor) or polarised retro-reflex units (sensor works with a reflector and the object 'breaks' the beam).

## MODULAR RANGE SERIES SSP1

An 11 pin, international relay base, plug-in control module (PMD3) for use with a range of heads to fulfil a variety of applications.



### Dimensions



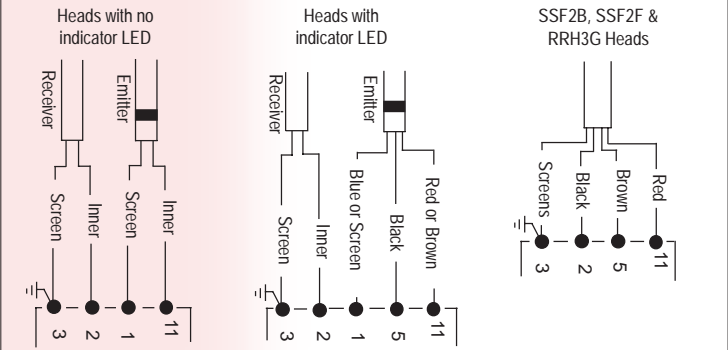
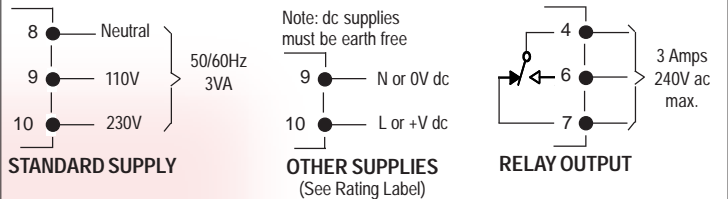
### SPECIFICATION - MODULAR SENSOR HEADS

Type	Range (metres)	Weight	Material
<b>Through Beam</b>			
Emitter SSL7	1.25M	70g	Anodised Aluminium
Receiver SSR7	1.25M	70g	Anodised Aluminium
Emitter SSL7RR	1.25M	90g	Anodised Aluminium
Receiver SSR7RR	1.25M	90g	Anodised Aluminium
Emitter SSL12	1.0M	75g	Moulded Polycarbonate
Receiver SSR12	1.0M	75g	Moulded Polycarbonate
Emitter SSL13	5.0M	90g	Brass/Anodised Aluminium
Receiver SSR13H	5.0M	90g	Brass/Anodised Aluminium
Emitter SSL26	10M	100g	Brass/Nylon
Receiver SSR26	10M	100g	Brass/Nylon
<b>Retro Reflex</b>			
RRH3G	2.0M	110g	Moulded ABS
<b>Reflex</b>			
SSF2B Unfocussed	0.05M	95g	Moulded Polycarbonate
SSF2F Focussed	0.02M optimum	95g	Moulded Polycarbonate

### SPECIFICATION - PMD3 MODULE

Supply (Standard Unit)	110/230V ac 50/60 Hz, 3VA
Output	S.P.C.O relay. 240V 3A non-inductive
Output Mode	Normally de-energised (output off with beam broken). For reverse operation, <i>normally on with beam broken</i> , add suffix 'X' after model number. (PMD3X)
Operating Temp.	-10° to +50°
Operating Speed	5 per second maximum
Operating Range	Dependant upon head used from chart above
Termination	11 pin plug in relay base
Sensitivity	0 to 100% adjustable
Time Delay	Standard, 1.5 to 15 sec. Other times to order
Indication	Output energised (On) LED
Enclosure	Moulded Noryl (modified PPO) & Acrylic
Protection	IP40
Weight	230g

### Connections



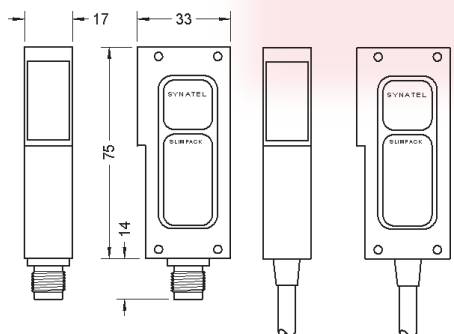
Accessories: 11 pin plug in relay base, reflectors.

## SLIMPACK RANGE

A range of reflex, polarised retro-reflex and through beam heads in a compact format ideal for many different applications.



### Dimensions



### SPECIFICATION - GENERAL

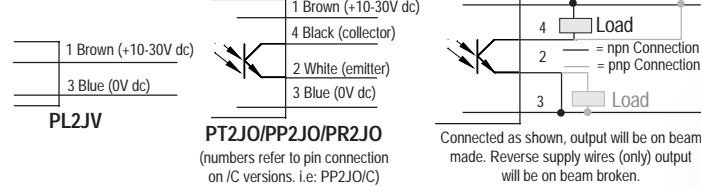
Supply	10-30V dc
Output	Fully protected, opto-isolated transistor. Rated@ 100mA 30V dc max.
Indication	Output state and variable intensity alignment
Termination	2M PVC sheathed cable or 4 pin connector
Sensitivity	0-100% on receiver, reflex and retro reflex

### SELECTION CHART

Model	Type	Operating Range	Weight
PP2JO	Retro Reflex	5.0M	280g
PP2JO/C	Retro Reflex	5.0M	100g
PR2JO	Reflex	0.75M	280g
PR2JO/C	reflex	0.75M	100g
PT2JO	Receiver \	6.0M	280g
PL2JV	Emitter /		280g
PT2JO/C	Receiver \	6.0M	100g
PL2JV/C	Emitter /		100g

Models with '/C' after type number require a connector.

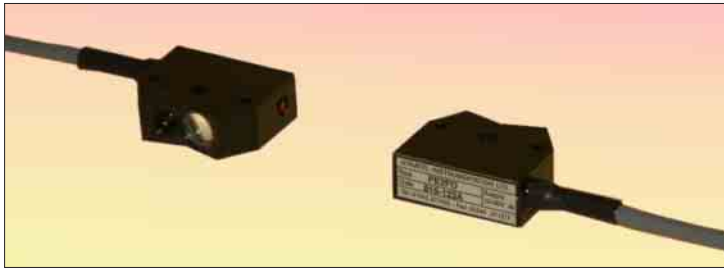
### Connections



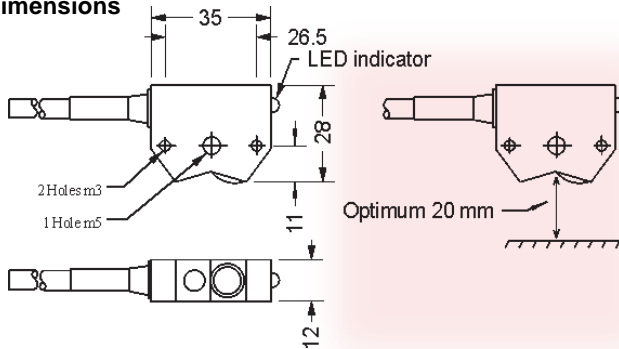
Accessories: Reflector, Connector with 2 metres cable (for use on connector 'C' versions only)

### MINIFLEX REFLEX SENSOR

Short range adaptable reflex sensors in infra red and visible light formats. These units are ideal for packaging and labelling machines where the focussed, short range operation prevents false signalling from nearby objects.



### Dimensions



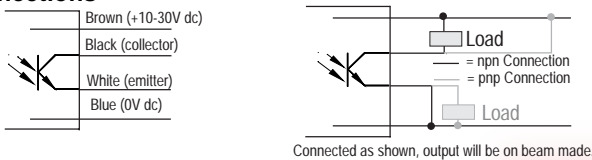
### SPECIFICATION - GENERAL

Supply	10-30V dc
Output	Fully protected, opto-isolated transistor. Rated@ 100mA 30V dc max.
Operating Range	0-0.05M max, 0.02M optimum
Indication	Output On LED
Termination	2M PVC sheathed cable

### SELECTION CHART

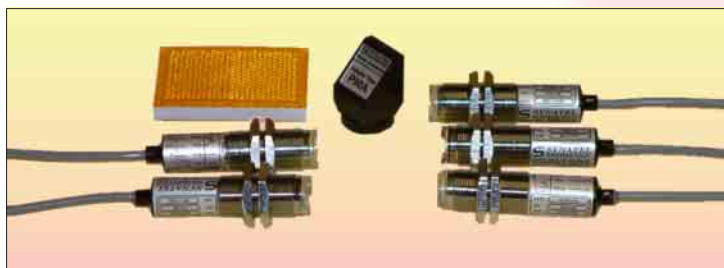
Model	Type	Weight
PE2FO	Visible red light suitable for most applications	100g
PI2FO	Infra-red sensor for dark, or black items	100g

### Connections

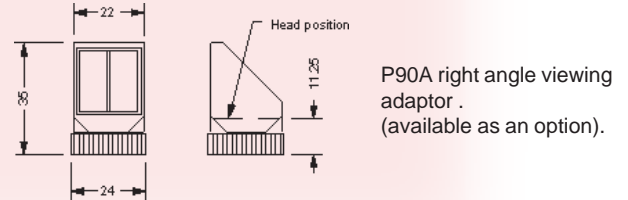
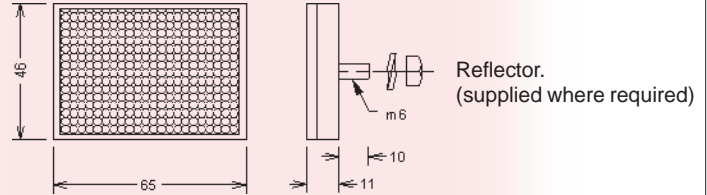
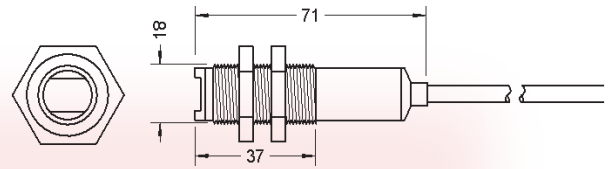


### OPTIBEAM RANGE

A range of 18mm sensors in through beam, non-polarised retro-reflex, polarised retro-reflex and reflex formats. These units provide a very cost effective solution to a wide range of different applications throughout industry.



### Dimensions



Reflector. (supplied where required)

P90A right angle viewing adaptor. (available as an option).

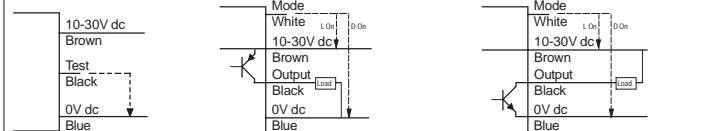
### SPECIFICATION - GENERAL

Supply	10-30V dc
Output	Fully protected, opto-isolated transistor. Rated@ 100mA 30V dc max.
Indication	Output state
Termination	2M PVC sheathed cable
Sensitivity	0-100% on receiver, reflex and retro reflex

### SELECTION CHART

Model	Type	Operating Range	Weight
PRN1M	Reflex npn	0.4M	100g
PRP1M	Reflex pnp	0.4M	100g
PDN1M	Retro-reflex npn	2.0M	100g
PPN1M (polarised)	Retro-reflex npn	1.0M	100g
PTP1M	Receiver pnp	8.0M	100g
PL1M	Emitter		100g
P90A	Right angle viewing adaptor		20g

### Connections



PL1M

PTP1M/PRP1M

PRN1M/PDN1M/PPN1M

### OPTABEAM RANGE

An economic range of robust sensors for dc and ac applications supplied as complete units with universal fixing brackets and reflectors (if needed). Operating ranges are: retro-reflex 4m distance, through beam 8m distance.



### Dimensions

