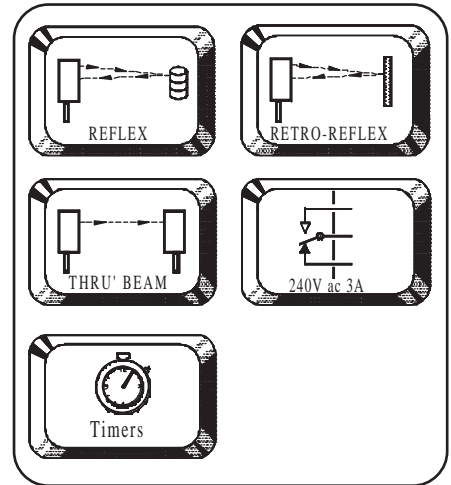
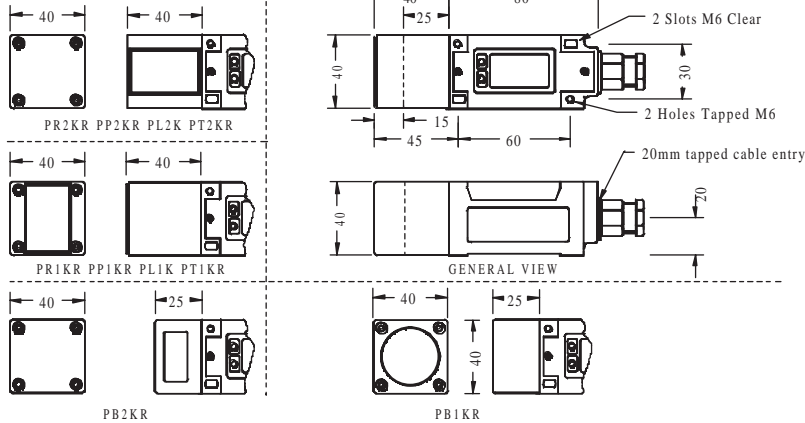


PHOTOGRAPH NOT AVAILABLE



DIMENSIONS



SYNASWITCH Polarised & Non-polarised Retro-reflex, Reflex, Through-beam & Fibre Optic 'K' Series

The K series SYNASWITCH are self-contained photoelectric sensors available in a wide variety of models. These include Polarised & Non-polarised Retro-reflex, Reflex and Through-beam versions. A Broad-beam Reflex sensor is also available for use, typically, in queue back sensing on bottling lines.

All units are available to operate from various supply voltages which should be specified at time of ordering. Output from the 'K' series is from a set of volt free change-over relay contacts, rated 240V 3A non-inductive.

SYNASWITCH units have adjustable sensitivity control and time delay on both beam make and beam break as standard. Two variations are offered for most type of units, either end viewing, in line with main body, (Type 1)

or side viewing, at right angle to the main body, (type 2). The type 2 SYNASWITCH can have the sensing face rotated to align with any face of the main body.

The design style of the 'K' series SYNASWITCH unit is based on a DIN standard limit switch & is ideal for replacing existing mechanical switches on conveyor systems or fitting to new systems.

All SYNASWITCH 'K' series are sealed to IP65.

- * *Through-beam, Reflex, Polarised & Non-polarised Retro-reflex Versions*
- * *Fibre optic Version*
- * *Adjustable Sensitivity Control and Time Delays on both Beam Break & Beam Make.*
- * *End and Side Viewing Versions*

SPECIFICATION

Supply	24V ac or dc, 50V ac, 110V ac or 230V ac as specified on rating label.
Supply Rating	12VA ac, 40mA d.c.
Output	Voltage free relay change over contacts rated at 3A 240V ac non-ind.
Operating Mode	Relay energised with Beam made.
Operating Range	Through-beam:- 8 metres max. Retro-reflex:- 5 metres max. Reflex:- 1.5 metres max. on matt white surface. Fibre Optics:- 500mm max. between heads. 10 metres max. fibre length.
Ambient Temp	-10°C to 50°C.
Operating Speed	5 per Second maximum.
Connections	Internal screw terminals via an M20 cable entry.
Enclosure	Moulded Nylon and Polyester.
Protection	IP65.
Light Source	Modulated visible light. (Broad Beam Sensor - PB#KR - Infra-red LED).
Indication	“Beam made” and “Variable Intensity Alignment”. Through-beam Emitter only (Power ON and Emitter device working).
Sensitivity Control	0 to 100% adjustable.
Time Delays	0 to 5 seconds adjustable delays on make and break. (Other delays on request).
Weight	200 grammes.

1. **Select** basic type required i.e. **Through-beam, Retro-reflex or Reflex** version.
2. **Order by model number** and state supply voltage the units will be working on.
Note:- Adjustable time delays on Beam make and Break and Adjustable Gain Control are **provided as standard** on all SYNASWITCH units.
Note:- Reflector discs for use with Retro reflex units must be **ordered separately**. (See Accessories Section 7000).
Note:- Broad beam Reflex units are designed to bridge and **ignore small gaps** between objects. (e.g. Bottle sensing).

Type	Model	Polarised	Side View	End View
Retro-reflex	PP1KR	Yes	No	Yes
Retro-reflex	PP2KR	Yes	Yes	No
Retro-reflex	PD2KR	No	Yes	No
Reflex	PR1KR	No	No	Yes
Reflex	PR2KR	No	Yes	No
Broad Reflex	PB1KR	No	No	Yes
Broad Reflex	PB2KR	No	Yes	No
Thru'-beam Emitter	PL1K	No	No	Yes
Thru'-beam Emitter	PL2K	No	Yes	No
Thru'-beam Receiver	PT1KR	No	No	Yes
Thru'-beam Receiver	PT2KR	No	Yes	No

CONNECTIONS

