



Fig.1 HSC-PE2 photo switch

1 GENERAL DESCRIPTION

The HSC-PE2 is a light sensing switch for controlling mains powered street lighting, designed to switch ON at low light levels and OFF at high light levels. The controller is provided in industry standard D2 format.

The controller uses an electronic sensor circuit, providing higher reliability and superior temperature stability of light level switching thresholds.

2 FEATURES

- Electronic light sensor circuit for accurate light level operation
- Industry standard D2 format
- Conforms to AS 1158-6
- 125 Joule MOV
- High Impact acrylic case
- Solid brass contacts
- Wide operating voltage range (185 Vac to 305 Vac)
- Switches ON in the case of failure of the light sensing element.

3 CHARACTERISTICS

All specifications apply at a T_{amb} of +25°C unless otherwise specified.

PARAMETER	VALUE
Nominal supply voltage 50 /60 Hz	230 Vac
Supply voltage range	185 - 305 Vac
Max. Load Rating	700W (3A @ 230 Vac)
Failure Mode	ON
Operating Temperature range	-10°C to + 65°C
Surge protection	175 Joule MOV
Power consumption	OFF (day time) = 2.2 W ON (night time) = 1.3 W
Operating light levels ⁽¹⁾	Turn ON: 10 lux (typ.) Turn OFF: 40 lux (typ.) (OFF:ON Ratio = 4:1)
Time Delay (at 230 Vac supply)	Turn ON: 30 secs (typ.) Turn OFF: 25 secs (typ.)
Photo-cell	CdS sensor
Suitable D-2 mounting base	Z60160 (Sylvania)

⁽¹⁾ Light level can be set to individual customers requirement.