

## SKYE INSTRUMENTS LIMITED

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## SINGLE CHANNEL LIGHT SENSORS SPECIFICATIONS

	SKP 210/212/215	SKL 310/315	SKE 510/515	SKS 1110
Sensitivity - current (1)	1.6 $\mu$ A/ 100 $\mu$ mol /m <sup>2</sup> /sec	1.5 $\mu$ A/ 10 kLux	3.5 $\mu$ A/ 100 W/m <sup>2</sup>	5 $\mu$ A/ 100Wm <sup>2</sup>
Sensitivity - voltage	1 mV/ 100 $\mu$ mol /m <sup>2</sup> /sec	1mV/ 10 kLux	1mV/ 100W/m <sup>2</sup>	1mV/100W/m <sup>2</sup>
Working range (2)	0-5x10 <sup>4</sup> $\mu$ mol /m <sup>2</sup> /sec	0-500 kLux	0-5000 W/m <sup>2</sup>	0-5000 W/m <sup>2</sup>
Linearity error - to above level	<0.2%	<0.2%	<0.2%	<0.2%
Absolute calibration error (3)	typ. <3% 5% max.	typ. <3% 5% max.	typ. <3% 5% max.	typ.<3% 5% max
Response time (7) - voltage output	10ns	10ns	10ns	10ns
Cosine error 4	3%	3%	3%	3%
Azimuth error (5)	<1%	<1%	<1%	<1%
Temperature Co-efficient	$\pm$ 0.1%/ <sup>o</sup> C	$\pm$ 0.1%/ <sup>o</sup> C	$\pm$ 0.1%/ <sup>o</sup> C	$\pm$ 0.2%/ <sup>o</sup> C
Internal resistance - voltage output	c.650ohms	c.650ohms	c.300ohms	c.180ohms
Longterm stability (6)	$\pm$ 2%	$\pm$ 2%	$\pm$ 2%	$\pm$ 2%
Material	Acetal	Acetal	Acetal	Acetal
Dimensions	34mm diameter 38mm height	34mm diameter 38mm height	34mm diameter 38mm height	34mm diameter 38mm height
Cable	2 core screened 7 - 2 - 2C	2 core screened 7 - 2 - 2C	2 core screened 7 - 2 - 2C	2 core screened 7 - 2 - 2C
Sensor Passband	400 - 700 nm	CIE photopic Curve	400 - 700 nm	350 - 1100 nm
Detector	Silicon photocell	Silicon photocell	Silicon photocell	Silicon photocell
Filters	Glass type and/or metal interference	Glass type and/or metal interference	Glass type and/or metal interference	Glass type and/or metal interference