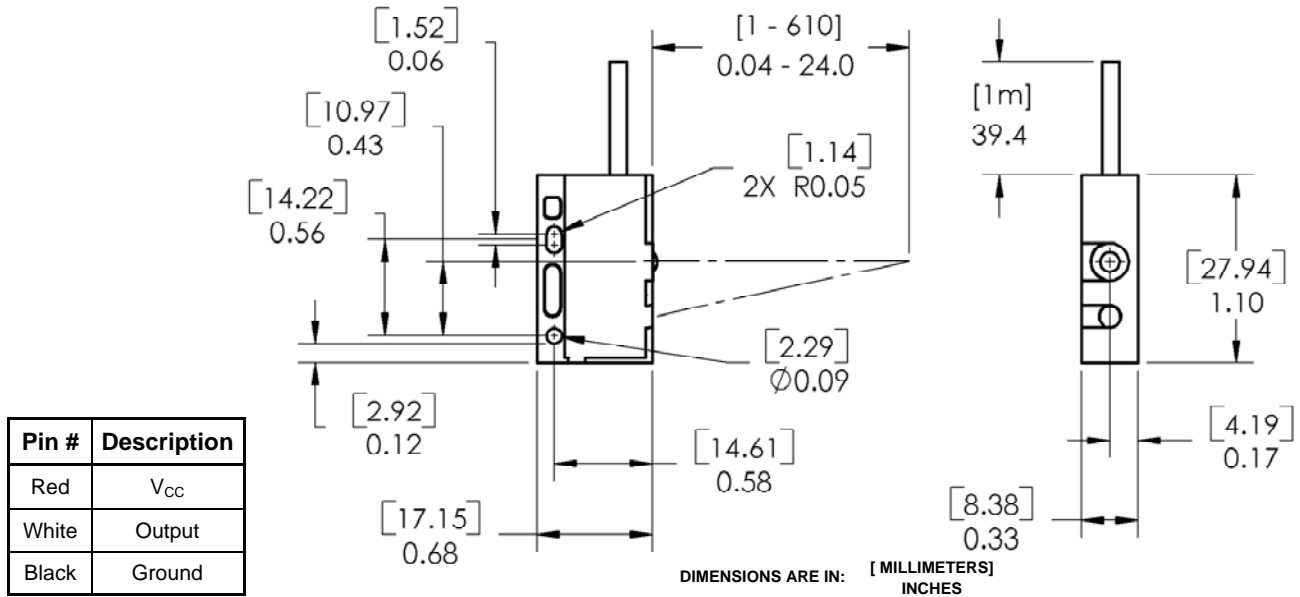


Long Distance Reflective Switch OPB720A and OPB720B Series



Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Operating Temperature Range OPB720A Series OPB720B Series	0° C to + 50° C 0° C to + 70° C
Storage Temperature Range	-40° C to + 80° C
Lead Soldering Temperature (1/16" (1.6 mm) from case for 5 seconds with soldering iron)	260° C ⁽¹⁾
Supply Voltage (V _{CC}) OPB720A Series OPB720B Series	10 to 30 Volts 4 to 7 Volts
Maximum Collector Voltage	30 V
Collector DC Current (Sink)	50 mA
Power Dissipation	300 mW

Electrical Characteristics (T_A = 25°C unless otherwise noted)

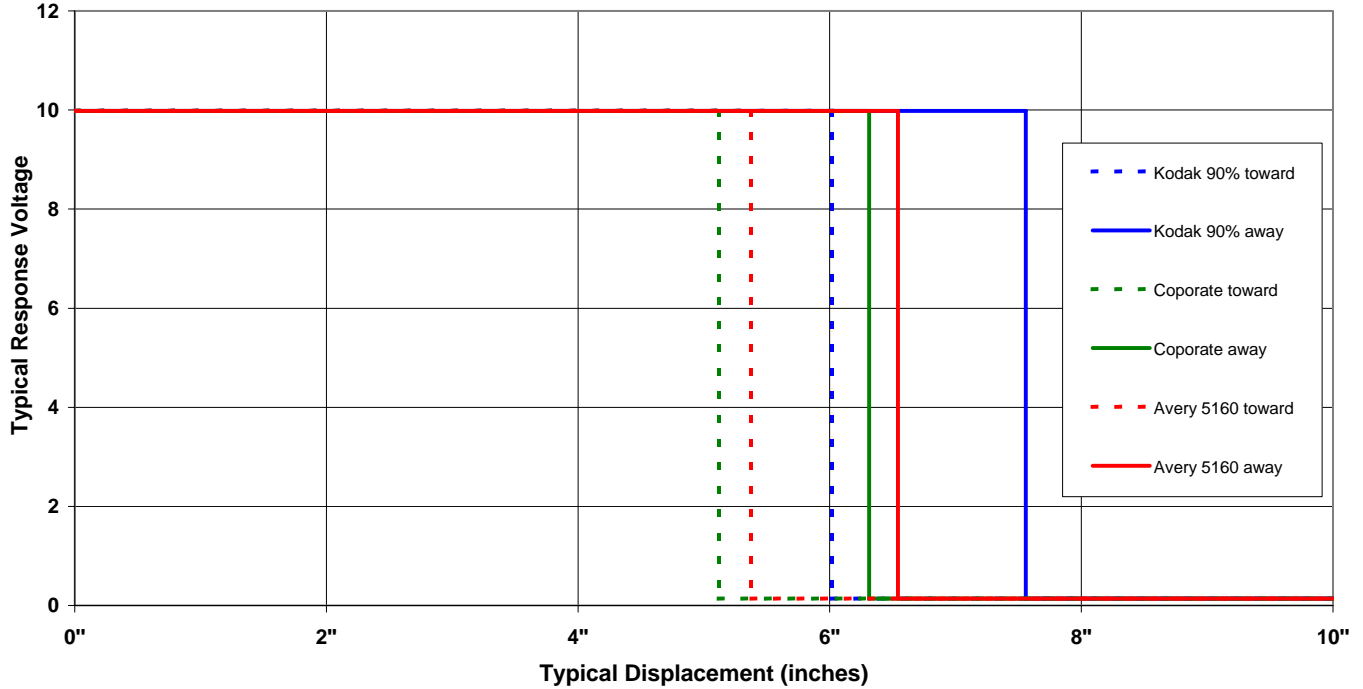
SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
V _{OL}	Low Level Output Voltage OPB720A Series OPB720B Series	-	-	0.8	V	V _{CC} = 10 Volts, Note 4 V _{CC} = 4 Volts, Note 4
V _{OH}	High Level Output Voltage OPB720A Series OPB720B Series	5.0 3.5	- -	- -	V	V _{CC} = 10 Volts, Note 5 V _{CC} = 4 Volts, Note 5

Notes:

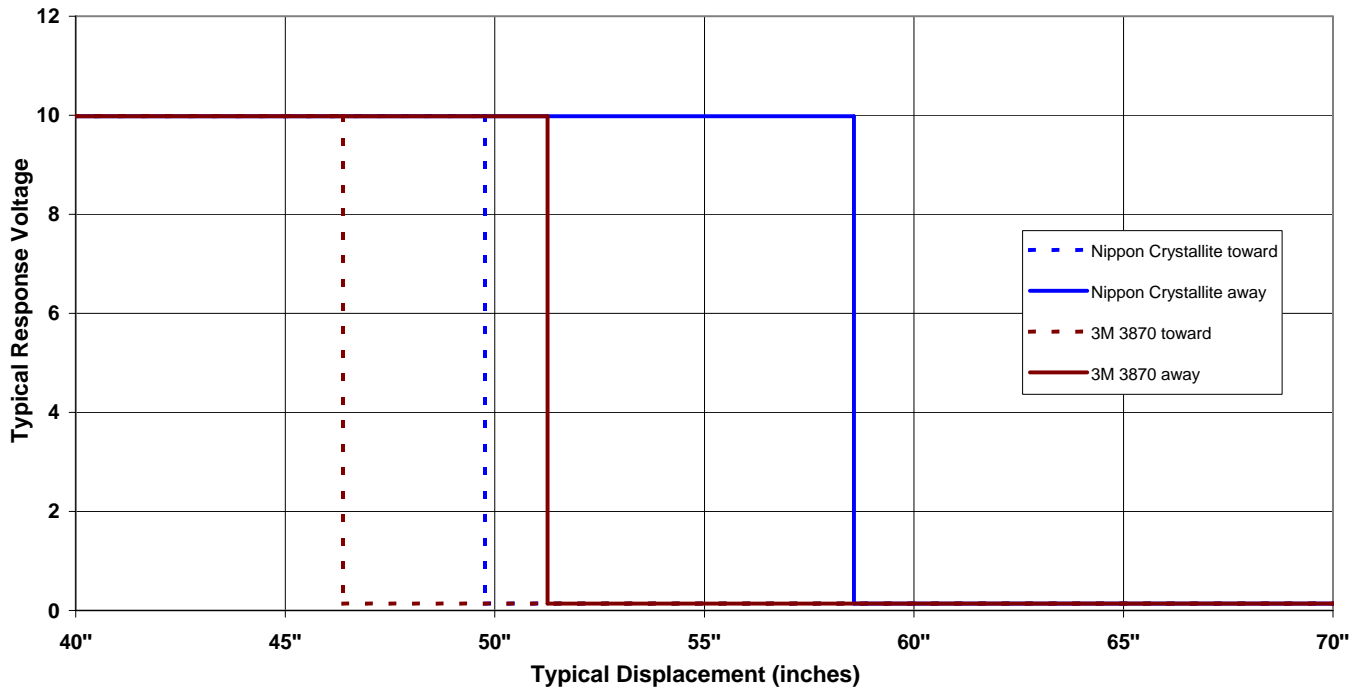
- (1) RMA flux is recommended. Duration can be extended to 10 seconds maximum when flow soldering.
- (2) Distance for OPB720A-06Z=6" (152 mm), Distance for OPB720A-12Z=12" (305mm), Distance for OPB720A-30VZ=30" (762 mm)
- (3) OPB720A-30VZ & OPB720B-30VZ are **class 1M** laser safety device. Do Not look at the device closer than 4" (100 mm) with a magnifying device.
- (4) R_L = 10 K, V_{CE} = V_{CC} Distance = See Note 2 & 3, (No Target)
- (5) R_L = 10 K, V_{CE} = V_{CC}, (90% Reflective Surface, Kodak—EK E152-7798)

OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

Voltage Response vs Displacement
 OPB720A-06Z or OPB720B-06Z

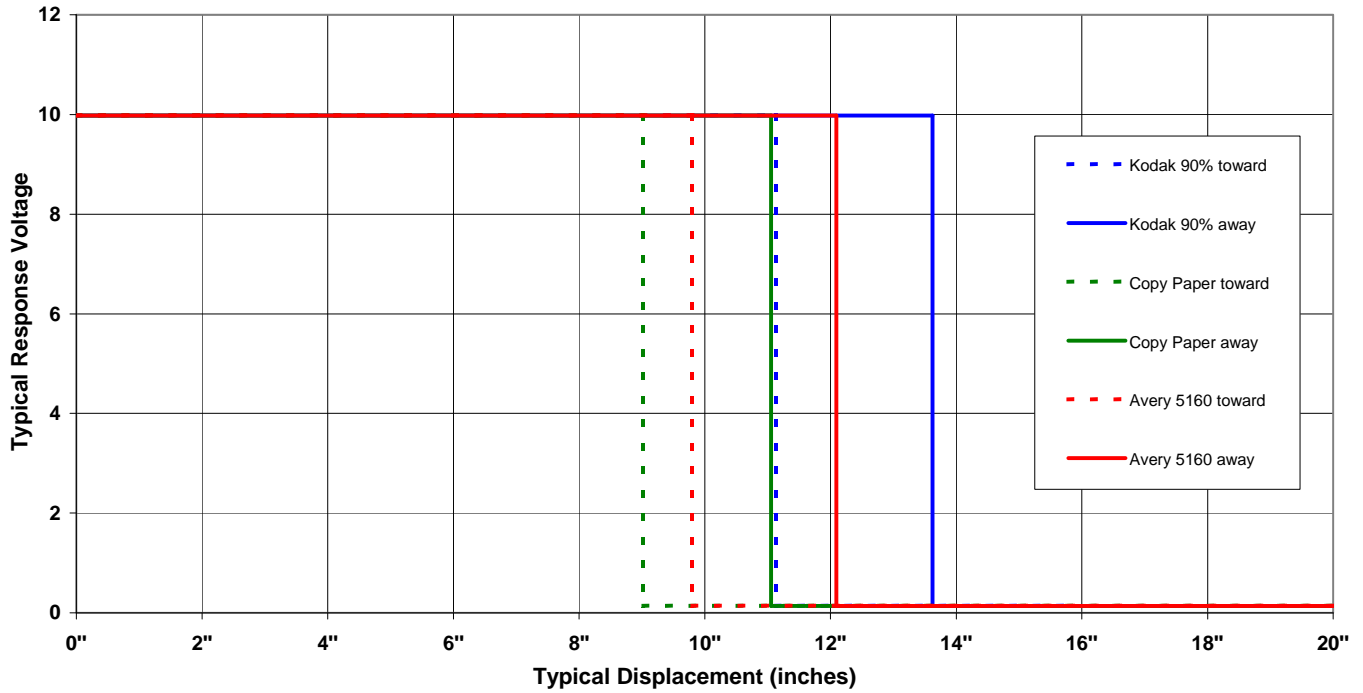


Voltage Response vs Displacement
 OPB720A-06Z or OPB720B-06Z

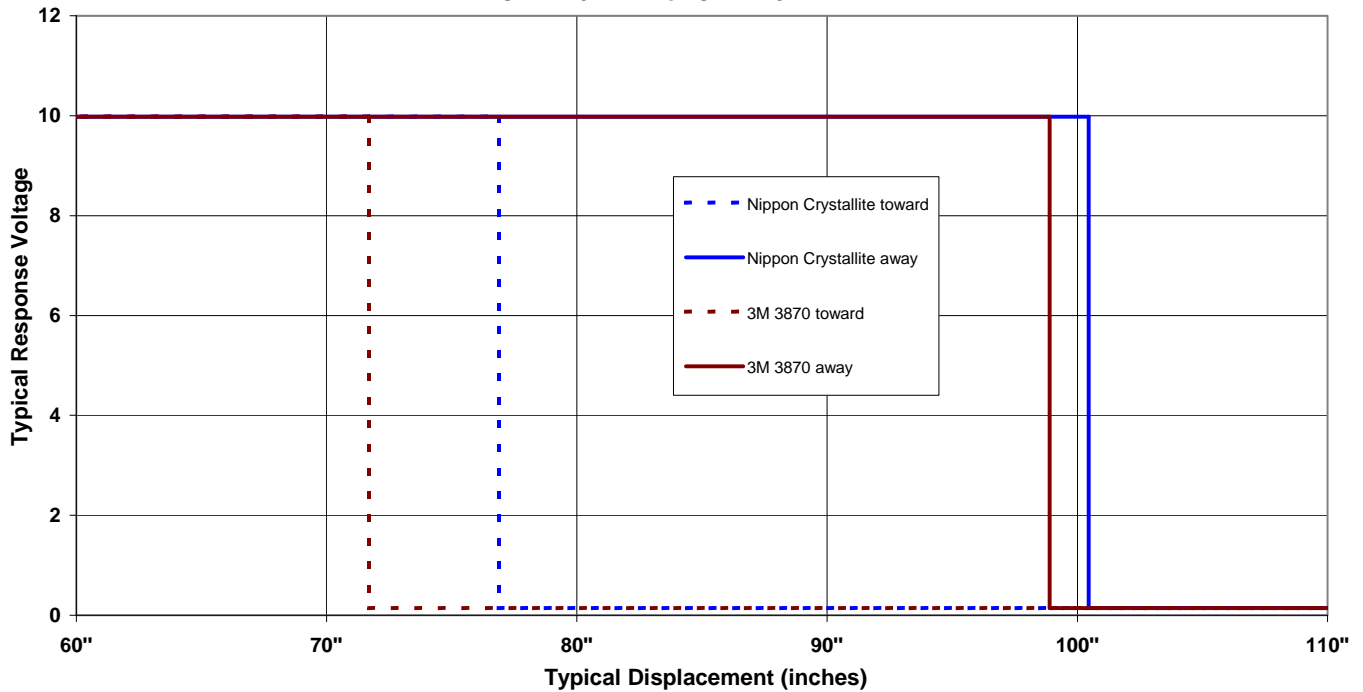


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Voltage Response vs Displacement
 OPB720A-12Z or OPB720B-12Z

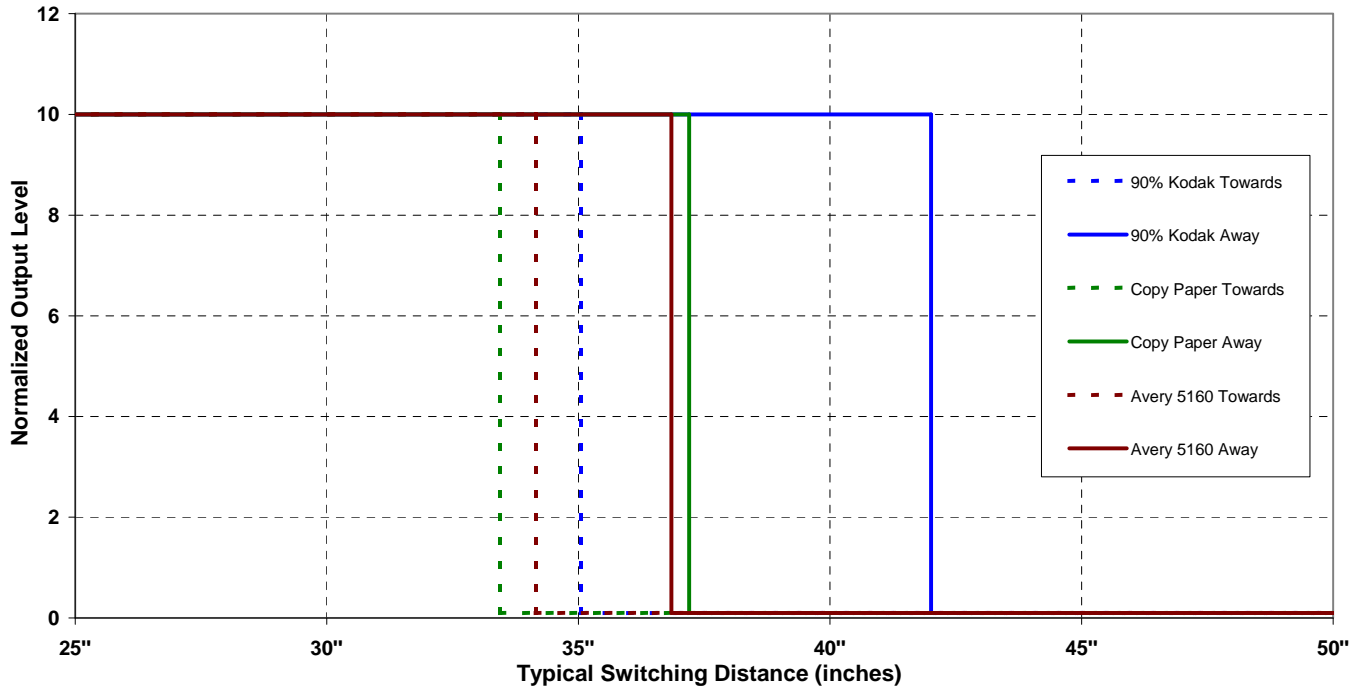


Voltage Response vs Displacement
 OPB720A-12Z or OPB720B-12Z

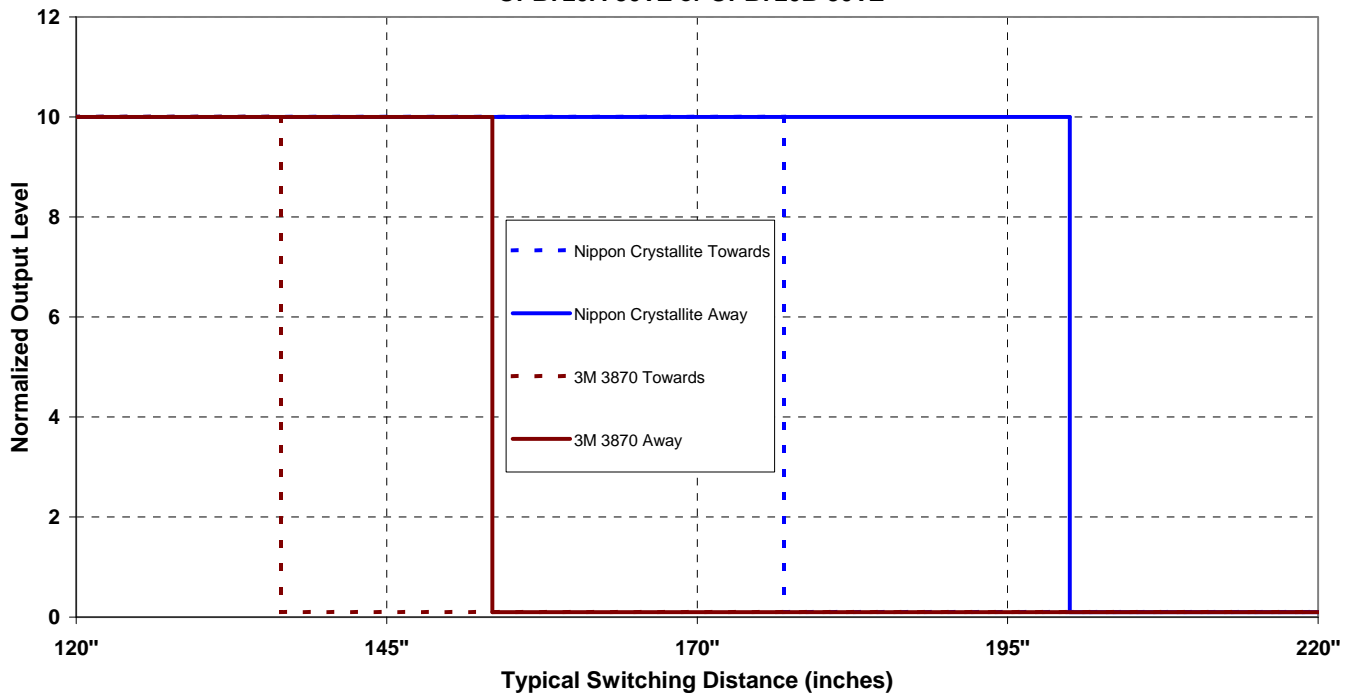


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Voltage Response vs Displacement
 OPB720A-30VZ or OPB720B-30VZ



Voltage Response vs Displacement
 OPB720A-30VZ or OPB720B-30VZ



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