

Installation Instructions

PHOTOSWITCH[®] 42KB Micro Rectangular: 5V DC Version

IMPORTANT: SAVE THESE INSTRUCTIONS FOR FUTURE USE.

Description

42KB Micro Rectangular self contained photoelectric sensors offer high performance in a compact 10mm x 15mm x 25mm rectangular housing. These sensors offer extended sensing ranges and a fast 1ms response time. Light or dark operation can be selected through a separate connection made at installation.

Each 42KB sensor comes complete with a steel right angle mounting bracket which provides a variety of mounting options.

Features

- Sensitivity adjustment potentiometer
- Dual LED indicators: output (red), stability (green)
- Short circuit protection on the sensor output (NPN output versions only)
- Stability output (NPN output versions only)
- Switch selectable light or dark operate
- Flat lens surface to minimize dust collection
- Reverse polarity protection
- False pulse protection
- Transient noise protection

Field of View	20°
Transmitting LED	Visible red 700nm
Connections	4-conductor PVC jacketed cable 6.5ft (2m)
1:1 Margin	40cm (15.75in)

Standard Diffuse

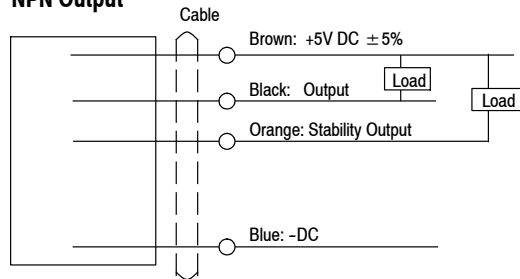
Operating Voltage	Supply Current	Output Energized	Output Characteristics			Response Time	Size	Catalog Number
			Type	Max Load Current	Max Leakage Current			Cable
5V DC ±5%	30mA	Light/Dark Selectable	NPN	Output: 100mA, Stability: 50mA	0.5mA	350µs	10.3mm x 15mm x 25.4mm	42KB-D2YNSG-A2

General Specifications

Relative Humidity	85% max
Ambient Temperature	-13°F to +131°F (-25°C to +55°C)
Lens Material	Polyarylate
Housing Material	Polyarylate
Operating Environment	NEMA 1, 4, 6, 12, 13 and IP67
Approvals	UL listed and CSA certified, class 2 source required
Weight	50 grams (1.76oz)

Wiring

NPN Output



Note: Details regarding connection of Allen-Bradley Bulletin 42KB Photoelectric sensors to Allen-Bradley programmable controllers can be found in Publication 42BCFK-70.

Dimensions—mm (inches)

Cable Versions (Side View)

42KB-D2YNSG-A2

