General Specifications

Electrical Capacity (Resistive Load)

Power Level: 15A @ 125/250V AC or 15A @ 30V DC

Other Ratings

Contact Resistance: 10 milliohms maximum for solder lug, screw & quick connect terminal models
30 milliohms maximum for wire lead terminal models
Insulation Resistance: 200 megohms minimum @ 500V DC
Dielectric Strength: 1,250V AC minimum between contacts for 1 minute minimum
3,750V AC minimum between contacts & case for 1 minute minimum
Mechanical Life: 30,000 operations minimum
Electrical Life: 15,000 operations minimum for circuit 11 and 12 models
10,000 operations minimum for circuit 13, 15, 18, 19 models
Angle of Throw: 24°

Materials & Finishes

Rocker: Phenylene oxide
Outer Housing: Polyamide (UL94V-0)
Inner Case: Melamine (UL94V-0)
Cover for Wire Lead Models: Glass fiber reinforced polyamide (UL94V-0)
Flange Gasket: Polychloroprene rubber
Movable Contactor: Copper with silver plating
Movable Contacts: Silver alloy plus copper with silver plating
Stationary Contacts: Silver alloy plus copper with silver plating
Terminals: Brass with tin plating
Wire Lead Covers: Heat resistant polyvinyl chloride (Leads are AWG 14)

Environmental Data

Operating Temp Range: –25°C through +85°C (–13°F through +185°F)
Humidity: 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock: 50G (490m/s^2) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Front Panel Seal: IP67 of IEC60529, dust tight & water protected during temporary immersion for all models
Behind Panel Seal: IP60 of IEC60529, dust tight but not water protected for solder lug, screw & quick connect models
IP67 of IEC60529, dust tight & water protected during temporary immersion for wire lead models

Installation

Soldering Time & Temp: Manual Soldering: See Profile A in Supplement section.
Cleaning: Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards: UL94V-0 outer housing, inner case, & outer cover on wire lead models
UL: **File No. E44145 - Recognized only when ordered with marking on switch.**
Add "/U" or "/CUL" to end of part number to order UL recognized switch.
All models approved at 15A @ 125/250V AC & 15A @ 30V DC.
EN: **No. 61058-1**
WR11 & WR12 models meet European Norm for 3mm contact gap to prevent contact welds.
Wiring Material Standards: UL AWM 1015 Recognized at Flammability VW-1.
Temperature Range –20°C ~ +105°C; Maximum Load 600V; AWG 14.
CSA TEW 105 Certified at Temperature Range –20°C ~ +105°C; Maximum Load 600V.

Distinctive Characteristics

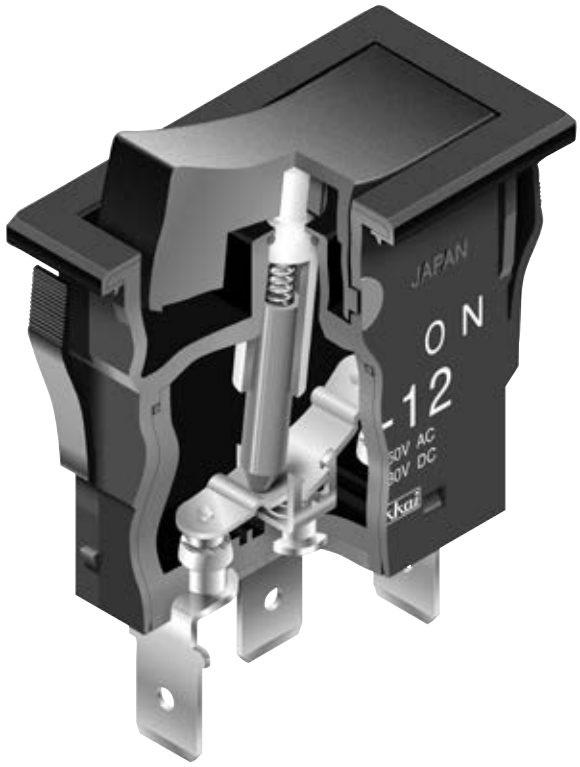
Single unit construction of the flange and outer housing gives added protection from environmental elements.

Specially designed contact mechanism for breaking light welds.

Minimal contact bounce achieved with specially designed interlocked switching mechanism.

Heat resistant resin used for outer housing, inner case, and cover on wire lead models meets UL94V-0 flammability standard and provides high arc and tracking resistance.

Available with solder lug, screw, quick connect, and wire lead terminations.

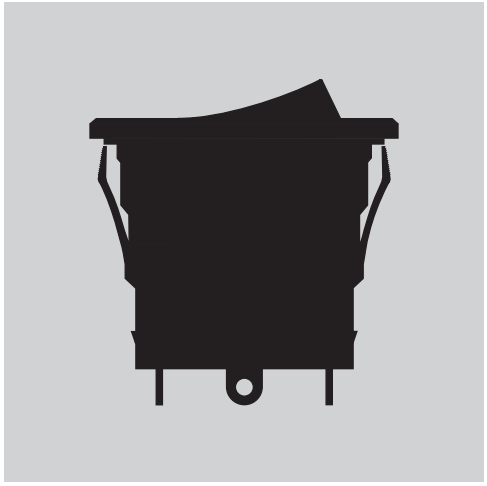


Sealed Construction Meets IP60 & IP67 Standards

Solder lug, screw, and quick connect terminal models meet IP67 of IEC60529 Standards at front panel (dust tight and water protected for temporary immersion, patent pending). Behind panel standard is IP60 (dust tight but not water protected).

Wire lead models conform fully to IP67 of IEC60529 Standards at front and behind panel (dust tight and water protected for temporary immersion). Switch base is epoxy sealed and covered by an outer case for further protection from dust and water. (Switches cannot be operated under water. Contact factory for further details regarding operating environment.)

Actual Size



TYPICAL SWITCH ORDERING EXAMPLE

WR 1 2 B S

Poles

1	SPST SPDT

Circuits

1	ON	NONE	OFF
2	ON	NONE	ON
3	ON	OFF	ON
5	ON	NONE	(ON)
8	(ON)	OFF	(ON)
9	ON	OFF	(ON)

( ) = Momentary

Rockers

A	Black
* B	Ivory

* Contact Factory for Quick Connect with Ivory Rocker

Terminals

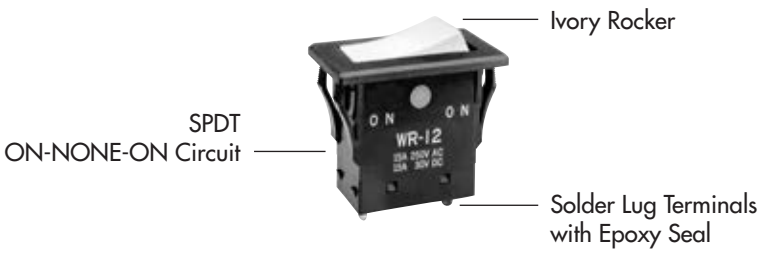
S	Solder Lug with Epoxy Seal
SN	Solder Lug without Epoxy Seal
T	Screw Lug with Epoxy Seal
TN	Screw Lug without Epoxy Seal
F	.250" (6.35mm) Quick Connect with Epoxy Seal
FN	.250" (6.35mm) Quick Connect without Epoxy Seal
L	Wire Lead

IMPORTANT:

Switches are supplied without UL & cULus marking unless specified.
UL & cULus recognized only when ordered with marking on the switch.
Specific models, ratings and ordering instructions are noted on the General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

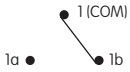
WR12BS



POLES & CIRCUITS

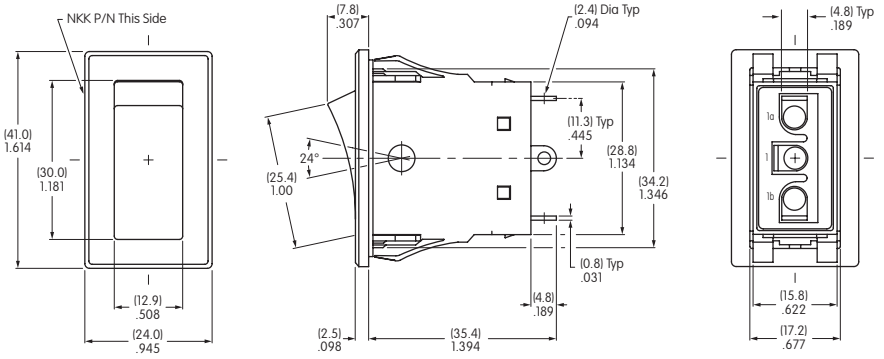
Pole	Model	Rocker Position ( ) = Momentary: Down	Center	Up	Connected Terminals: Down	Center	Up	Throw & Schematics
SP	**WR11**	ON	NONE	OFF	1a-1b	OPEN	OPEN	SPST
SP	**WR12**	ON	NONE	ON	1-1b	OPEN	1-1a	SPDT
	WR13	ON	OFF	ON				
	WR15	ON	NONE	(ON)				
	WR18	(ON)	OFF	(ON)				
	WR19	ON	OFF	(ON)				

Note: Terminal numbers are not actually on wire lead models.



TYPICAL SWITCH DIMENSIONS

Solder Lug Terminals

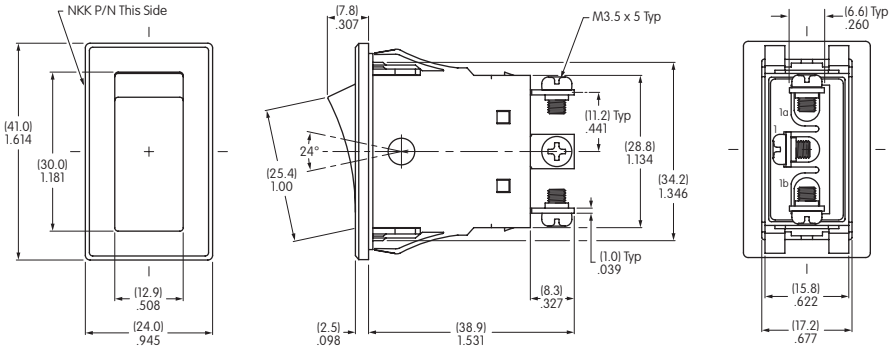


WR11 model does not have terminal 1.

Panel Thickness
.039" ~ .157"
(1.0mm ~ 4.0mm)

WR12AS

Screw Lug Terminals



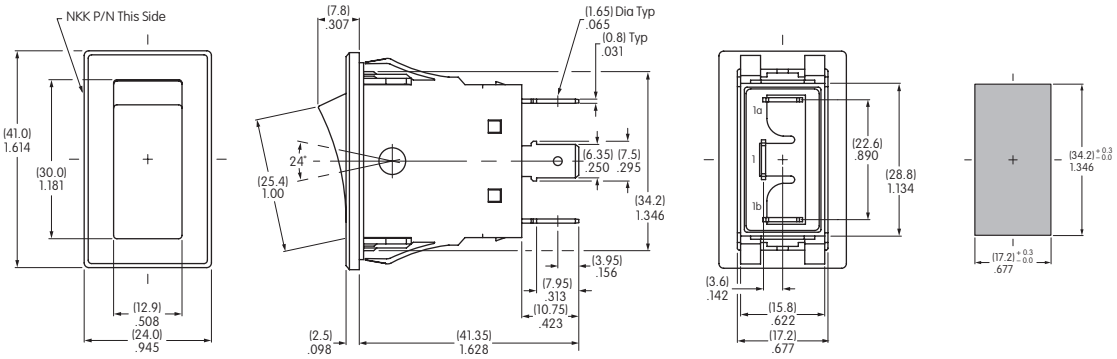
WR11 model does not have terminal 1.

Panel Thickness
.039" ~ .157"
(1.0mm ~ 4.0mm)

WR12AT

TYPICAL SWITCH DIMENSIONS

.250" (6.35mm) Quick Connect Terminals

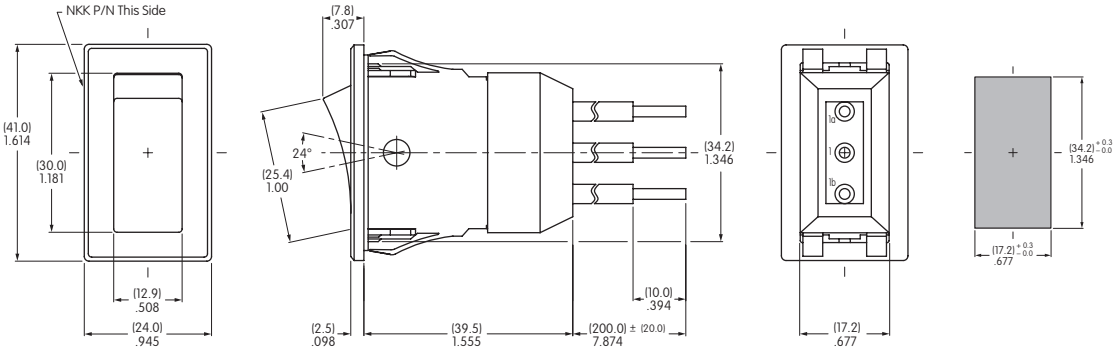


WR13AF

WR11 model does not have terminal 1.

Panel Thickness
.039" ~ .157"
(1.0mm ~ 4.0mm)

Wire Lead Terminals



WR15BL

WR11 model does not have terminal 1.

Panel Thickness
.039" ~ .157"
(1.0mm ~ 4.0mm)

STANDARD WIRE COLOR SCHEME

Wire leads are covered with heat resistant vinyl in accordance with UL 1015 and CSA TEW 105 Standards for Appliance Wiring Material (AWM).

Terminal Numbers & Wire Colors			
	1a	1	1b
WR11	Black		White
WR12-19	White	Black	Red

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NKK Switches:

WR19ASN WR11ASN WR15BS

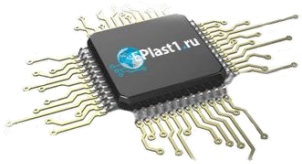
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.