

NKK SWITCHES® Environmentally Sealed Switches

For use in outdoor or harsh applications.



Features:

- Sealing at front and back panel meets IP67 of IEC60529 and IP60 Standards
- Single unit construction of bushing and case gives added protection from environmental elements
- Anti-jamming design protects contacts from damage due to excessive downward force on the toggle
- Specially designed contact mechanism for breaking light contact welds
- Minimal contact bounce achieved with designed interlocked switching mechanism

Specifications:

- Electrical Capacity:** Toggle: 10A @ 125VAC; Rocker: 15A @ 125VAC
- Dielectric Strength:** Toggle: 1,500VAC minimum; Rocker: 3,750VAC minimum between contacts and case
- Mechanical Life:** 30,000 operations minimum
- Electrical Life:** 15,000 operations minimum
- Operating Temperature:** Toggle: -30°C ~ 70°C; Rocker: -25°C ~ 85°C
- Angle of Throw:** 24°
- Panel Thickness:** .157" (4.0mm)
- Standard Hardware:** Toggle: 1 hex nut, 1 lockwasher, 1 O-ring
- Color:** Black

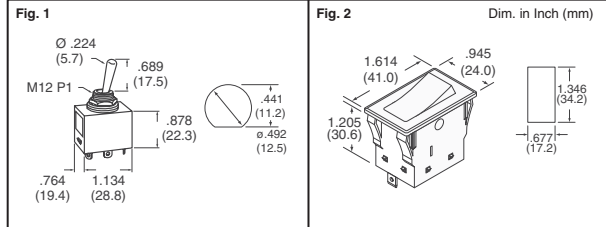


Fig.	Switching Circuit	Termination	Function	Digi-Key Part No.	1	25	100	NKK Part No.	
Sealed Toggle — 10A									
1	SPST	Solder Lug	On-Off	360-1951-ND	11.25	8.15	7.25	WT11S-RO	
	SPST	Screw Lug	On-Off	360-1952-ND	12.04	8.73	7.76	WT11T-RO	
	SPDT	Solder Lug	On-On	360-1953-ND	11.93	8.64	7.69	WT12S-RO	
	SPDT	Screw Lug	On-On	360-1954-ND	12.71	9.21	8.20	WT12T-RO	
	SPDT	Solder Lug	On-Off-On	360-1955-ND	12.56	9.10	8.10	WT13S-RO	
	SPDT	Screw Lug	On-Off-On	360-1956-ND	13.34	9.67	8.60	WT13T-RO	
	DPST	Solder Lug	On-Off	360-1957-ND	16.13	11.73	10.63	WT21S-RO	
	DPST	Screw Lug	On-Off	360-1958-ND	16.86	12.45	11.45	WT21T-RO	
	DPDT	Solder Lug	On-On	360-1959-ND	16.79	12.21	10.88	WT22S-RO	
	DPDT	Screw Lug	On-On	360-1960-ND	17.49	12.92	11.88	WT22T-RO	
2	DPDT	Solder Lug	On-Off-On	360-1961-ND	17.43	12.87	11.83	WT23S-RO	
	DPDT	Screw Lug	On-Off-On	360-1962-ND	18.90	13.95	12.83	WT23T-RO	
	Sealed Rocker — 15A								
	SPST	.250" QC	On-Off	360-2277-ND	11.45	8.30	7.39	WR11AF	
	SPST	Solder Lug	On-Off	360-1507-ND	11.45	8.30	7.39	WR11AS	
	SPST	Solder Lug	On-Off	360-1510-NDA	11.45	8.30	7.39	WR11BS	
	SPDT	.250" QC	On-On	360-2278-ND	12.06	8.74	7.78	WR12AF	
	SPDT	Solder Lug	On-On	360-1513-ND	12.06	8.74	7.78	WR12AS	
	SPDT	Solder Lug	On-On	360-1516-NDA	12.06	8.74	7.78	WR12BS	
	SPDT	.250" QC	On-Off-On	360-2279-ND	12.69	9.20	8.18	WR13AF	
SPDT	Solder Lug	On-Off-On	360-1519-ND	12.69	9.20	8.18	WR13AS		
SPDT	Solder Lug	On-Off-On	360-1522-NDA	12.69	9.20	8.18	WR13BS		
SPDT	.250" QC	On-Mom	360-2280-ND	13.62	9.91	8.98	WR15AF		
SPDT	.250" QC	Mom-Off-Mom	360-2281-ND	15.42	11.22	10.17	WR18AF		
SPDT	.250" QC	On-Off-Mom	360-2282-ND	15.42	11.22	10.17	WR19AF		

▲ Ivory

Fully Illuminated Toggle and Paddle Switches

TL Series: Interior O-ring protects contacts from oil, dust, water, and other contaminants
Specifications: • Power Level: 6A @ 125VAC • Electrical Life: 25,000 operations minimum • Sealing Ring: Nitrile butadiene rubber • Operating Temperature: -10°C ~ 55°C • IP65 Panel seal when used with optional AT401P O-ring

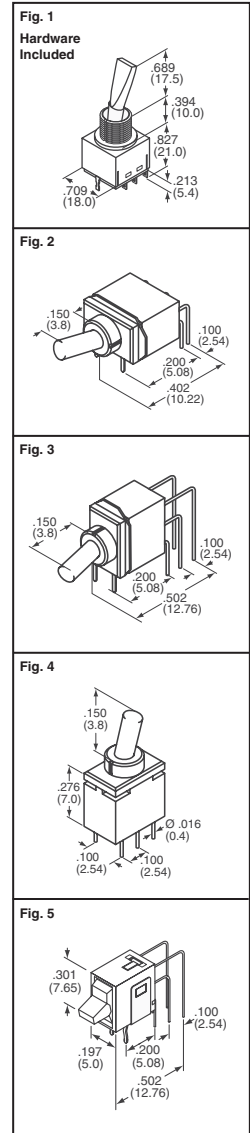
G Series: Totally sealed body construction prevents contact contamination and allows time and money saving automated soldering and washing
Specifications: • Logic Level: 0.4VA maximum @ 28V AC/DC maximum • Electrical Life: 50,000 operations minimum • Sealing Rings: Nitrile butadiene rubber • Operating Temperature: -25°C ~ 55°C

Sealing Rings: Nitrile butadiene rubber • Non-Illuminated Operating Temperature: -25°C ~ 85°C • Illuminated Operating Temperature: -25°C ~ 55°C

GW Series: World's smallest fully illuminated paddles for highly visible status indication. Specially designed switching mechanism provides crisp actuation feedback to positively indicate circuit transfer. **Specifications:** • Logic Level: 0.4VA maximum @ 28V AC/DC maximum • Electrical Life: 50,000 operations minimum • Sealing Rings: Nitrile butadiene rubber • Operating Temperature: -25°C ~ 55°C

Fig.	Switch Circuit	Actuator Function	Illumination Color	Color	Digi-Key Part No.	1	25	100	NKK Part No.
Fully Illuminated Toggle Switches									
1	DPDT	On-On	Red	Bright Red	360-1939-ND	12.13	8.79	7.82	TL22DCAW015C-RO
	DPDT	On-On	Amber	Bright Amber	360-1940-ND	12.13	8.79	7.82	TL22DDAW015D-RO
	DPDT	On-On	Green	Bright Green	360-1941-ND	12.13	8.79	7.82	TL22DFAW015F-RO
	DPDT	On-On	Clear	Super Bright White	360-1713-ND	14.52	10.56	9.57	TL22DNAW016B-RO
	DPDT	On-On	Clear	Super Bright White	360-1942-ND	14.52	10.56	9.57	TL22DNAW016B-RO
	DPDT	On-On	Clear	Super Bright Blue	360-1944-ND	14.52	10.56	9.57	TL22DNAW016F-RO
DPDT	On-On	Clear	Super Bright Green	360-1943-ND	14.52	10.56	9.57	TL22DNAW016F-RO	
—	Panel Seal O-Ring for TL Toggles.....				360-1719-ND	.92	.48	.40	AT401P
Ultra-Miniature Fully Illuminated Toggle Switches Process Sealed									
2	SPDT	On-On	Clear	Red	360-1760-ND	7.25	4.93	4.44	G12JHC-RO
	SPDT	On-On	Clear	Amber	360-1688-ND	7.25	4.93	4.44	G12JHD
	SPDT	On-On	Clear	Amber	360-1762-ND	7.25	4.93	4.44	G12JHD-RO
	SPDT	On-On	Clear	Green	360-1691-ND	7.25	4.93	4.44	G12JHF
	SPDT	On-On	Clear	Green	360-1763-ND	7.25	4.93	4.44	G12JHF-RO
	SPDT	On-On	Clear	Red/Green	360-1761-ND	8.16	5.78	5.27	G12JHCF-RO
SPDT	On-Off-On	Clear	Red/Green	360-1771-ND	8.42	5.97	5.45	G13JHCF-RO	
3	SPDT	On-On	Clear	Red	360-1764-ND	7.25	4.93	4.44	G12JVC-RO
	SPDT	On-On	Clear	Amber	360-1690-ND	7.25	4.93	4.44	G12JVD
	SPDT	On-On	Clear	Amber	360-1766-ND	7.25	4.93	4.44	G12JVD-RO
	SPDT	On-On	Clear	Green	360-1767-ND	7.25	4.93	4.44	G12JVJF-RO
	SPDT	On-On	Clear	Red/Green	360-1765-ND	8.16	5.78	5.27	G12JVJCF-RO
	SPDT	On-Off-On	Clear	Red/Green	360-1772-ND	8.42	5.97	5.45	G13JVJCF-RO
4	SPDT	On-On	Clear	Red	360-1686-ND	6.48	4.49	3.97	G12JPC
	SPDT	On-On	Clear	Amber	360-1689-ND	6.48	4.49	3.97	G12JPD
	SPDT	On-On	Clear	Green	360-1692-ND	6.48	4.49	3.97	G12JPF
	SPDT	On-On	Clear	Red/Green	360-1695-ND	7.70	5.24	4.78	G12JPCF
	SPDT	On-Off-On	Clear	Red/Green	360-1698-ND	7.98	5.43	4.95	G13JPCF
Ultra-Miniature Non-Illuminated Toggle Switches Process Sealed — RoHS Compliant									
2	SPDT	On-On	Gray	—	360-1757-ND	4.81	3.07	2.80	G12AH-RO
	SPDT	On-Off-On	Gray	—	360-1768-ND	5.03	3.21	2.93	G13AH-RO
3	SPDT	On-Off-On	Gray	—	360-1759-ND	4.81	3.07	2.80	G12AV-RO
	SPDT	On-Off-On	Gray	—	360-1770-ND	5.03	3.21	2.93	G13AV-RO
4	SPDT	On-On	Gray	—	360-1758-ND	4.26	2.74	2.44	G12AP-RO
	SPDT	On-Off-On	Gray	—	360-1769-ND	4.48	2.80	2.56	G13AP-RO
Ultra Thin Fully Illuminated Paddles — RoHS Compliant									
5	SPDT	On-On	Clear	Red	360-2117-ND	6.45	4.30	3.85	GW12LJVC-RO
	SPDT	On-On	Clear	Amber	360-2118-ND	6.45	4.30	3.85	GW12LJVD-RO
	SPDT	On-On	Clear	Green	360-2119-ND	6.45	4.30	3.85	GW12LJVF-RO

◆ RoHS Compliant



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