

TEKNIC

Rocker Switches



TEKNIC Illuminated and Non-Illuminated Switches are compact and aesthetically elegant, and are suitable for snap mounting in the most common and standard panel cutouts. They are designed for use in a wide variety of applications, in Home Appliances, Office Automation Equipment like Photo-Copiers , Stabilizers , UPS , Printers, Power Supply Units, and other Electrical, Electronic and Instrumentation Equipment.

APPROVALS

Our Switches are Certified by VDE Germany, by KEMA with ENEC mark, by Canadian Standards Association (CSA) with C & US mark and Underwriters Laboratories (UL) with C & US mark which is recognised for sales in North American countries, and all over the world.

GENERAL

1. ELECTRICAL CHARACTERISTICS

Our switches are suitable for switching of resistive, inductive & capacitive loads to the extent of current and voltage ratings of our individual switches, as indicated against them.

2. AMBIENT TEMPERATURE

Our switches are suitable for operation in an ambient Temperature upto 85°C, i.e, T85

3. MATERIALS OF CONSTRUCTION

Housing : Nylon 66 (Un-filled)
Flammability: UL 94, V-2
Rocker Button : Nylon 66 / Polycarbonate
Flammability: UL 94, V-2
Terminals : Copper / Copper Alloy
Contacts : Silver / Silver Alloy

4. REFERENCE STANDARDS

EN :61058-1, CSA-C22.2 No.55-M1986 & UL - 1054

5. TECHNICAL SPECIFICATION

INSULATION RESISTANCE (New State) at 500V DC for 1minute	> 100 megohms.	Ref : EN 61058-1
CONTACT RESISTANCE (New State)	< 10 milliohms	Ref : EN 61058-1
DIELECTRICAL STRENGTH (New State)	Across reinforced insulation Across full disconnection Across micro disconnection	3000V 1500V 500V Ref : EN 61058-1
CONTACT GAP	≥ 1.5 mm min. Full-Disconnect OR Micro-Disconnect (μ) as individually specified. Ref : EN 61058-1	
TERMINAL STRENGTH Push and pull forces for terminals in Newtons (N) (Ref : EN 61058-1)	Terminal size	Push - N Pull - N
	4.8 x 0.8 mm.	80 98
	6.3 x 0.8 mm.	96 88
FIXING	Snap - in Mounting	
ELECTRICAL ENDURANCE	10,000 CYCLES min. 6,000 CYCLES min.	Ref.: EN :61058-1 (CSA- C22.2 No.55)
DEGREE OF PROTECTION	IP 30/40	Ref.: EN :61058-1
PROTECTION AGAINST ELECTRIC SHOCK	CLASS II APPLIANCE	Ref.: EN :61058-1
HEAT & FIRE RESISTANCE	LEVEL 3 Glow wire test at 850° C	Ref.: EN :61058-1
DEGREE OF POLLUTION	2 (NORMAL)	Ref.:EN :61058-1
PROOF OF TRACKING INDEX	PTI 250V (material group IIIa)	Ref.: EN :61058-1
TEMPERATURE RISE AT THE TERMINALS (ACCORDING TO ELECTRICAL LIFE ENDURANCE)	max. 30° c max. 55° c	(CSA- C22.2 No.55) (UL- 1054) (EN :61058-1)
RoHS COMPLIANT	YES	

6. APPEARANCE

7. OPERATING FUNCTIONS

() INDICATES MOMENTARY ACTION

TYPE	CIRCUIT FUNCTION	CODE	FUNCTIONS
N - NON ILLUMINATED	ON OFF	F1	SINGLE THROW
	(ON) OFF	F2	SINGLE THROW-SPRING RETURN ON 'ON' POSITION.
L - ILLUMINATED	ON (OFF)	F3	SINGLE THROW-SPRING RETURN ON 'OFF' POSITION.
	ON ON	F4	DOUBLE THROW.
NL - CENTRAL ILLUMINATION	(ON) ON	F5	DOUBLE THROW- SPRING RETURN IN ONE POSITION.
	ON OFF ON	F6	DOUBLE THROW- CENTER OFF
NT - NON ILLUMINATED TRANSPARENT	(ON) OFF ON	F7	DOUBLE THROW- CENTER OFF WITH SPRING RETURN IN ONE POSITION
	(ON) OFF (ON)	F8	DOUBLE THROW- CENTER OFF WITH SPRING RETURN ON BOTH POSITIONS

8. TERMINALS **

TERMINAL TYPE	CODE
4.8 x 0.8 mm.	A
6.3 x 0.8 mm.	B
SOLDERABLE TYPE	C
PCB TYPE	D
SCREW TYPE	S

9. HOUSING COLOURS

HOUSING COLOUR	CODE
BLACK (WITH POLE BARRIER)	BK
BLACK (WITHOUT POLE BARRIER)	BP
WHITE (WITH POLE BARRIER)	WH
WHITE (WITHOUT POLE BARRIER)	WP
GREY (WITH POLE BARRIER)	GY
GREY (WITHOUT POLE BARRIER)	GP

10. BUTTON COLOURS

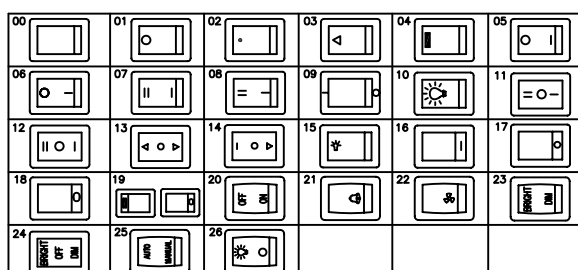
BUTTON COLOUR	CODE
BLACK	BK
WHITE	WH
GREY	GY
GREEN	GR
RED	RD
AMBER	AM

12. DUST COVER

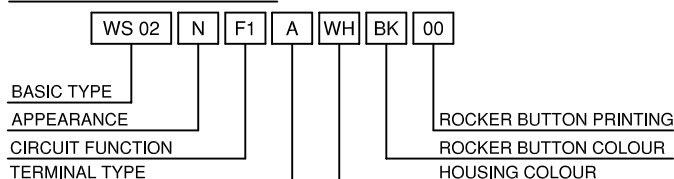
(Optional)
Available only for
WS00,WS01,WS02,WS06,
WS08,WS09,WS10,WS11,
WS12

** Note : connections to our switches with terminal designs A & B should be made only with lugs, and not by soldering.

11. PRINTING ON BUTTONS

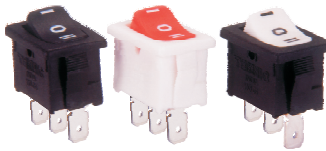
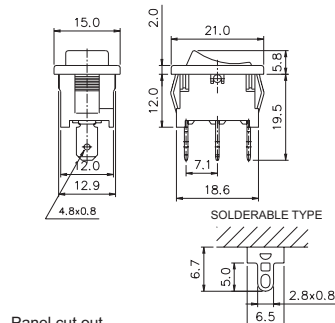
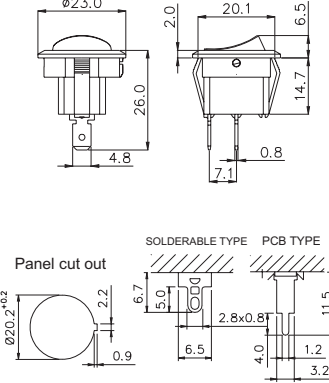
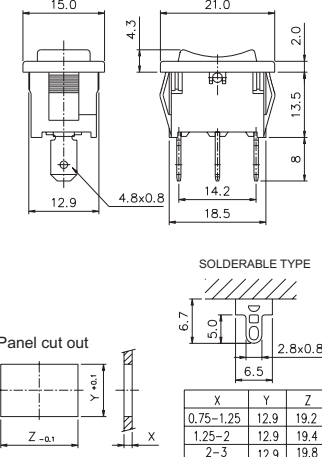
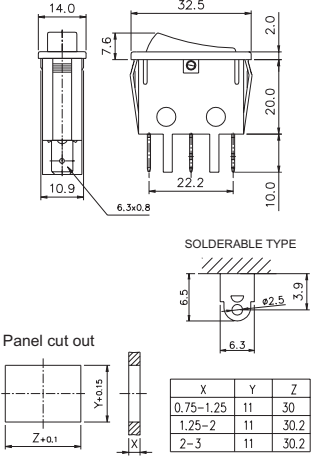
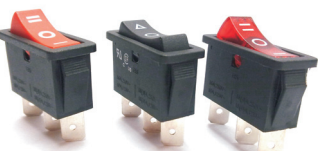
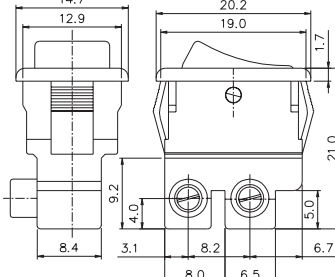
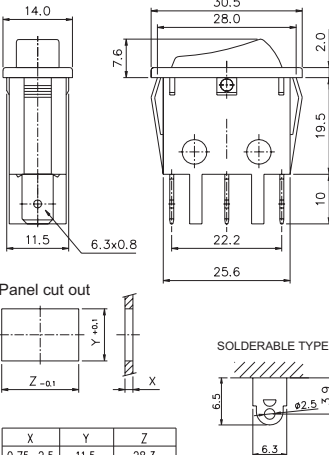
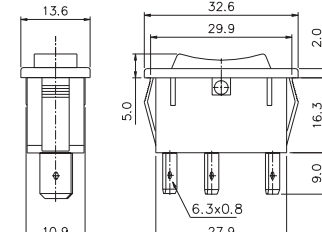
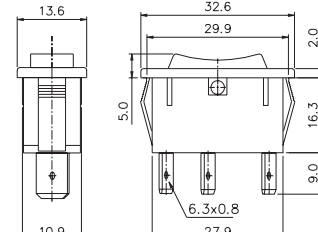


ORDERING EXAMPLE :

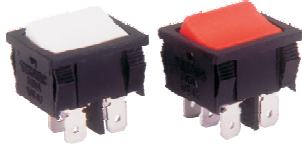
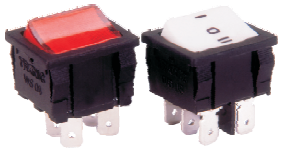
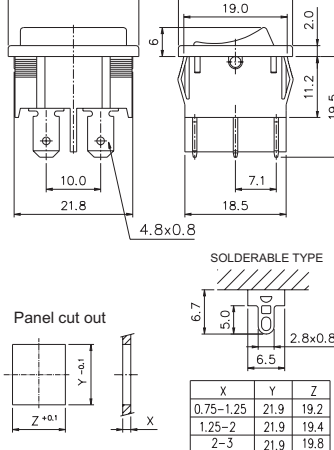
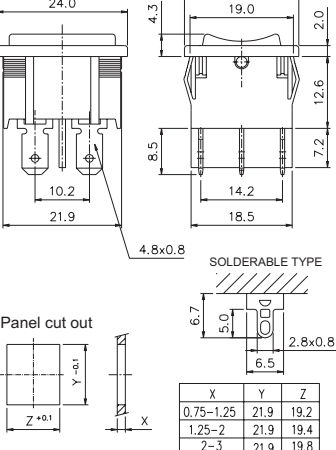
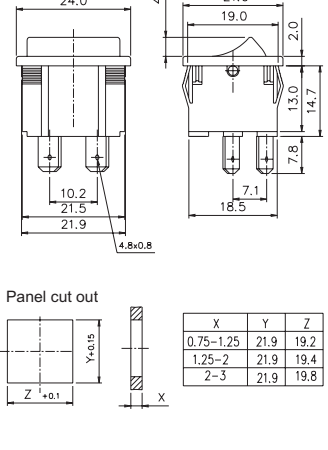
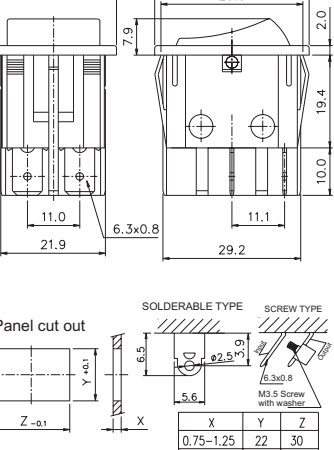
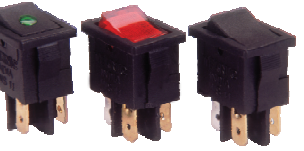
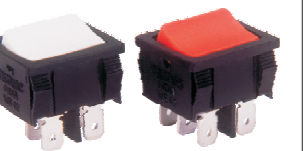
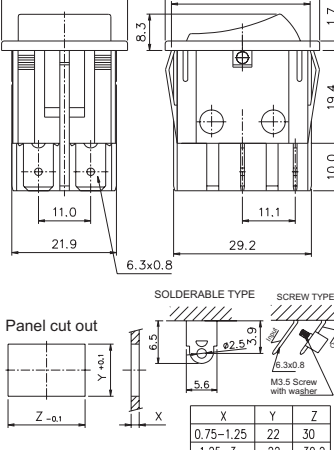
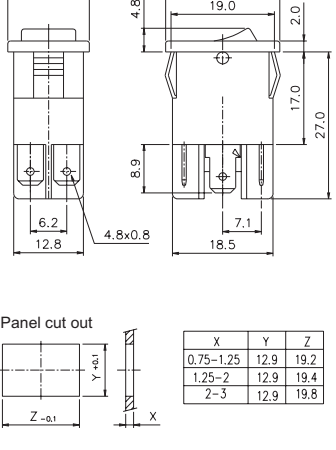
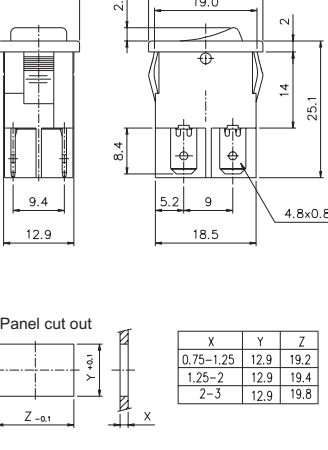
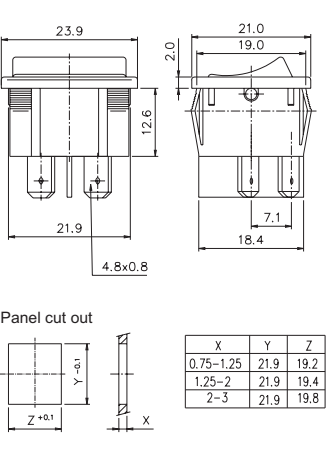


ROCKER SWITCH TYPE WS 02, NON ILLUMINATED, ON - OFF, TERMINAL 4.8, WHITE HOUSING (WITH POLE BARRIER), BLACK ROCKER BUTTON, WITH NIL PRINTING ON ROCKER BUTTON.

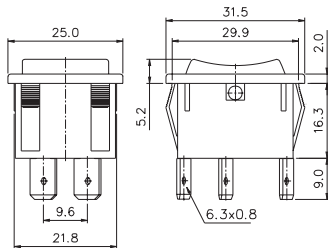
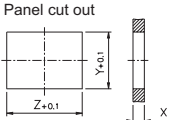
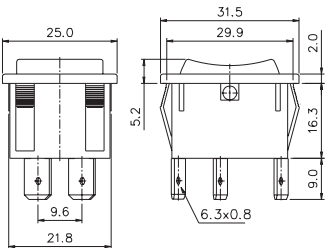
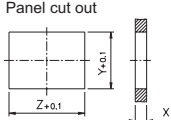
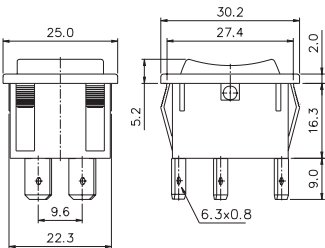
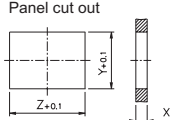
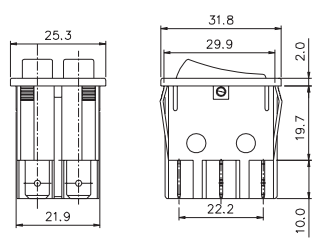
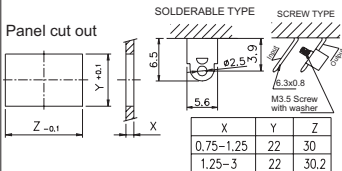
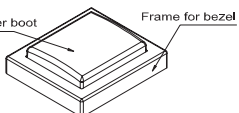
NOTE : 1) FOR SWITCH 2WS13 REPEAT THE ORDERING CODES FOR BOTH RIGHT & LEFT SIDE
EXAMPLE : 2WS13 L F1 B BK AM 00 / 2WS13 N F1 B BK BK 00
2) FOR DUST COVER CODE S13 TO BE ADDED AFTER CODE FOR PRINTING.
EXAMPLE : WS02 N F1 A WH BK 00 S13

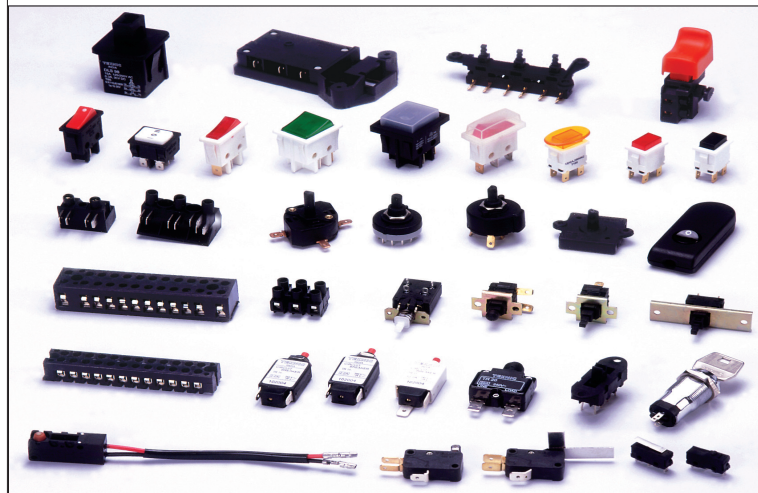
																																							
WS 00 UL/CSA RATING : 6A, 125 / 250V ~ VDE RATING : 6(2)A, 250V ~ : 6/45A(Inrush Current) 250V ~ WS 10 UL/CSA RATING : 16A, 125/250V ~ 1/2 HP VDE RATING : 16(6)A, 250V ~ : 10/100A(Inrush Current) 250V~	WS 00R UL/CSA RATING : 6A, 125 / 250V ~ VDE RATING : 6(2)A, 250V ~ : 6/45A(Inrush Current) 250V ~ WS 10R UL/CSA RATING : 16A, 125/250V ~ 1/2 HP VDE RATING : 16(6)A, 250V ~ : 10/100A(Inrush Current) 250V~	WS 09 CSA RATING : 6A, 125/250V ~ 4A,12V DC (μ Gap) VDE RATING : 6(2)A, 250V ~ : 6/45A(Inrush Current) 250V ~	WS 03/ UL/CSA RATING : 6A, 125/250V ~ 6A 24V DC VDE RATING : 6(3)A, 250V ~ WS 13/ UL/CSA RATING : 16A, 125/250V ~ 16A 24V DC VDE RATING : 16(4)A, 250V ~ CAPACITIVE : 16/150A 250V~5E4 LOAD RATING INTERNAL TESTING																																				
POLES : SINGLE	POLES : SINGLE	POLES : SINGLE	POLES : SINGLE																																				
 Panel cut out <table><tr><th>X</th><th>Y</th><th>Z</th></tr><tr><td>0.75-1.25</td><td>12.9</td><td>19.2</td></tr><tr><td>1.25-2</td><td>12.9</td><td>19.4</td></tr><tr><td>2-3</td><td>12.9</td><td>19.8</td></tr></table> TYPE : NON-ILLUMINATED ONLY. FUNCTIONS : F1,F2,F3,F4,F5 TERMINALS : A, C, APPROVALS : 	X	Y	Z	0.75-1.25	12.9	19.2	1.25-2	12.9	19.4	2-3	12.9	19.8	 Panel cut out FUNCTIONS : F1,F2,F3,F4,F5 TERMINALS : A, C, D APPROVALS : 	 Panel cut out <table><tr><th>X</th><th>Y</th><th>Z</th></tr><tr><td>0.75-1.25</td><td>12.9</td><td>19.2</td></tr><tr><td>1.25-2</td><td>12.9</td><td>19.4</td></tr><tr><td>2-3</td><td>12.9</td><td>19.8</td></tr></table> TYPE : NON-ILLUMINATED ONLY. FUNCTIONS : F6,F7,F8 TERMINALS : A, C APPROVALS : 	X	Y	Z	0.75-1.25	12.9	19.2	1.25-2	12.9	19.4	2-3	12.9	19.8	 Panel cut out <table><tr><th>X</th><th>Y</th><th>Z</th></tr><tr><td>0.75-1.25</td><td>11</td><td>30</td></tr><tr><td>1.25-2</td><td>11</td><td>30.2</td></tr><tr><td>2-3</td><td>11</td><td>30.2</td></tr></table> FUNCTIONS : F1,F2,F3,F4 TERMINALS : B, C APPROVALS : 	X	Y	Z	0.75-1.25	11	30	1.25-2	11	30.2	2-3	11	30.2
X	Y	Z																																					
0.75-1.25	12.9	19.2																																					
1.25-2	12.9	19.4																																					
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0.75-1.25	11	30																																					
1.25-2	11	30.2																																					
2-3	11	30.2																																					
																																							
WS 14 RATING : 10(4)A, 250V ~	WS 39 UL/CSA RATING : 6A, 125/250V ~ 6A 24V DC VDE RATING : 6(3)A, 250V ~ WS 49 UL/CSA RATING : 16A,125/ 250V ~ 16A 24V DC VDE RATING : 16(4)A, 250V ~ CAPACITIVE : 16/150A 250V~5E4 LOAD RATING INTERNAL TESTING	WS 17 : 6(2)A, 250V ~ (μ Gap)	WS 27 UL/CSA RATING : 16A, 125 /250V ~ 16A 24V DC (μ Gap) KEMA RATING : 16(4)A, 250V ~ (ENEC) :16/45A(Inrush Current) 250V ~																																				
POLES : SINGLE	POLES : SINGLE	POLES : SINGLE	POLES : SINGLE																																				
 Panel cut out <table><tr><th>X</th><th>Y</th><th>Z</th></tr><tr><td>0.75-1.25</td><td>12.9</td><td>19.2</td></tr><tr><td>1.25-2</td><td>12.9</td><td>19.4</td></tr><tr><td>2-3</td><td>12.9</td><td>19.8</td></tr></table> TYPE : NON-ILLUMINATED ONLY. FUNCTIONS : F1 TERMINALS : M3 Screw Terminal	X	Y	Z	0.75-1.25	12.9	19.2	1.25-2	12.9	19.4	2-3	12.9	19.8	 Panel cut out <table><tr><th>X</th><th>Y</th><th>Z</th></tr><tr><td>0.75-2.5</td><td>11.5</td><td>28.3</td></tr></table> FUNCTIONS : F1,F2,F3,F4 TERMINALS : B, C APPROVALS : 	X	Y	Z	0.75-2.5	11.5	28.3	 Panel cut out <table><tr><th>X</th><th>Y</th><th>Z</th></tr><tr><td>0.75-1.25</td><td>11</td><td>30</td></tr><tr><td>1.25-2.5</td><td>11</td><td>30.2</td></tr></table> TYPE : NON-ILLUMINATED ONLY. FUNCTIONS : F1,F2,F3,F4,F5,F6,F7,F8 TERMINALS : B	X	Y	Z	0.75-1.25	11	30	1.25-2.5	11	30.2	 Panel cut out <table><tr><th>X</th><th>Y</th><th>Z</th></tr><tr><td>0.75-1.25</td><td>11</td><td>30</td></tr><tr><td>1.25-2.5</td><td>11</td><td>30.2</td></tr></table> TYPE : NON-ILLUMINATED ONLY. FUNCTIONS : F1,F2,F3,F4,F5,F6,F7,F8 TERMINALS : B APPROVALS : 	X	Y	Z	0.75-1.25	11	30	1.25-2.5	11	30.2
X	Y	Z																																					
0.75-1.25	12.9	19.2																																					
1.25-2	12.9	19.4																																					
2-3	12.9	19.8																																					
X	Y	Z																																					
0.75-2.5	11.5	28.3																																					
X	Y	Z																																					
0.75-1.25	11	30																																					
1.25-2.5	11	30.2																																					
X	Y	Z																																					
0.75-1.25	11	30																																					
1.25-2.5	11	30.2																																					

All dimensions are in mm

			
WS 02 UL/CSA RATING : 6A, 125/250V ~ 6A 24V DC VDE RATING : 6(2)A, 250V ~ : 6/45A(Inrush Current) 250V ~	WS 08 CSA RATING : 6A, 125/250V ~ (μ Gap) VDE RATING : 6(2)A, 250V ~ : 6/45A(Inrush Current) 250V ~	WS 08L : 6(2)A, 250V ~	WS 04 UL RATING : 16A, 125/277V ~ 3/4 HP, 16A 24V DC CSA RATING : 16A, 125/250V ~ VDE RATING : 16(4)A, 250V ~ KEMA RATING : 16(4)A, 250V ~ 50E3 (ENEC) : 16/100A(Inrush Current) 250V ~50E3 : 20(6)A, 250V ~ : 20/150A(Inrush Current) 250V ~
POLES : DOUBLE	POLES : DOUBLE	POLES : DOUBLE	POLES : DOUBLE
 TYPE : NON-ILLUMINATED ONLY. FUNCTIONS : F1,F2,F3,F4,F5 TERMINALS : A, C APPROVALS : 	 TYPE : NON-ILLUMINATED ONLY. FUNCTIONS : F6,F7,F8 TERMINALS : A, C APPROVALS : 	 TYPE : ILLUMINATED ONLY. FUNCTIONS : F1 TERMINALS : B APPROVALS : 	 FUNCTIONS : F1,F2,F3,F4 TERMINALS : B, C, S APPROVALS : 
			
WS 06 UL RATING : 16A, 125/277V ~ 3/4 HP, 16A 24V DC CSA RATING : 16A, 125/250V ~ VDE RATING : 16(4)A, 250V ~ KEMA RATING : 16(4)A, 250V ~ 50E3 (ENEC) : 16/100A(Inrush Current) 250V ~50E3 : 20(6)A, 250V ~ 1E4 : 20/150A(Inrush Current) 250V ~	WS 01 CSA RATING : 4A, 125/250V ~ VDE RATING : 6(2)A, 250V ~ : 6/45A(Inrush Current) 250V ~ : 6/100A(Inrush Current) 250V ~	WS 11 UL/CSA RATING : 16A, 125/250V ~ 16A 24V DC VDE RATING : 16(6)A, 250V ~ : 10/100A(Inrush Current) 250V ~ KEMA RATING : 10(4)A, 250V ~ (ENEC)	WS 12 UL/CSA RATING : 16A, 125/250V ~ 1/2 HP, : 16A 24V DC VDE RATING : 16(6)A, 250V ~ : 10/100A(Inrush Current) 250V ~
POLES : DOUBLE	POLES : DOUBLE	POLES : DOUBLE	POLES : DOUBLE
 FUNCTIONS : F1,F2,F3,F4 TERMINALS : B, C, S APPROVALS : 	 FUNCTIONS : F1,F4 TERMINALS : A APPROVALS : 	 FUNCTIONS : F1 TERMINALS : A APPROVALS : 	 TYPE : NON-ILLUMINATED ONLY. FUNCTIONS : F1,F4 TERMINALS : A APPROVALS : 

All dimensions are in mm

																														
WS 15 RATING : 6(2)A,250V AC (μ Gap)	WS 25 UL/CSA RATING : 16A, 125/250V ~ 16A 24V DC (μ Gap) KEMA RATING : 16(4)A, 250V ~ (ENEC) : 16/45A(Inrush Current), 250V ~	WS 35 UL/CSA RATING : 16A, 125/250V ~ 16A 24V DC (μ Gap) KEMA RATING : 16(4)A, 250V ~ (ENEC)	2WS 13 RATING : 16(4)A, 250V ~ UL/CSA RATING : 16A, 125/250V ~ 16A 24V DC CAPACITIVE : 16/150A 250V~SE4 LOAD RATING INTERNAL TESTING																											
POLES : DOUBLE	POLES : DOUBLE	POLES : DOUBLE	POLES : SINGLE																											
  <table border="1" data-bbox="277 898 419 938"><tr><td>X</td><td>Y</td><td>Z</td></tr><tr><td>0.75~3</td><td>22</td><td>30.2</td></tr></table>	X	Y	Z	0.75~3	22	30.2	  <table border="1" data-bbox="628 898 770 938"><tr><td>X</td><td>Y</td><td>Z</td></tr><tr><td>0.75~3</td><td>22</td><td>30.2</td></tr></table>	X	Y	Z	0.75~3	22	30.2	  <table border="1" data-bbox="981 884 1128 918"><tr><td>X</td><td>Y</td><td>Z</td></tr><tr><td>0.75~3</td><td>22.3</td><td>27.4</td></tr></table>	X	Y	Z	0.75~3	22.3	27.4	  SOLDERABLE TYPE SCREW TYPE <table border="1" data-bbox="1339 922 1481 976"><tr><td>X</td><td>Y</td><td>Z</td></tr><tr><td>0.75~1.25</td><td>22</td><td>30</td></tr><tr><td>1.25~3</td><td>22</td><td>30.2</td></tr></table>	X	Y	Z	0.75~1.25	22	30	1.25~3	22	30.2
X	Y	Z																												
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1.25~3	22	30.2																												
FUNCTIONS : F1,F2,F3,F4,F5,F6,F7,F8 TERMINALS : B APPROVALS    	FUNCTIONS : F1,F2,F3,F4,F5,F6,F7,F8 TERMINALS : B APPROVALS    	FUNCTIONS : F1,F2,F3,F4,F5,F6,F7,F8 TERMINALS : B APPROVALS    	FUNCTIONS : F1,F2,F3,F4 TERMINALS : B, C APPROVALS :    																											
OTHER PRODUCTS			DUST COVER - S13																											
1.CIRCUIT BREAKERS FOR EQUIPMENT			 Silicon rubber boot Frame for bezel																											
2. MINIATURE MICRO SWITCHES																														
3. SUB-MINIATURE MICRO SWITCHES																														
4. ROTARY SWITCHES																														
5. PUSH PUSH SWITCHES																														
6. SLIDE SWITCHES																														
7. DOOR INTERLOCK SWITCHES																														
8. KEY SWITCHES																														
9. TERMINAL STRIPS																														
10. SPECIAL PURPOSE SWITCHES																														



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