R-Series Pushbuttons, Selector Switches

Metal Bezel

NEMA 4

Heavy Duty

Heavy Duty

LED Pilot Light's Modular 22mm + 30mm

NEMA 4X 22mm

NEMA 4X 30mm

Very Bright

Low Power

Low Heat

Metal Chrome Bezel

Steel Block Holder Included with operators

Bolt - On Contact Block

A Secure + Safe System Versus Snap on Contacts

Pushbuttons
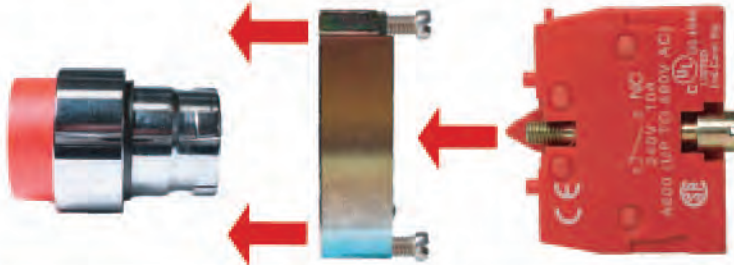
22 mm, NEMA 4, IP65

cULus   CE   **IEC 947-1**

-13°, + 158°F Ambient Temp

**Pushbuttons and Selectors
1 million mechanical Oper.
Emergency Stop
300,000 Operations**

**Ith10 Amp, 600Volt
A600, Q600**

FEATURES

- **High Gloss Chrome**
- **Rugged Design**
- **Very Bright LED's** (22 & 30mm)
- **Modular Design**
- **Secure Screw Mounting**
- **Self Cleaning Contacts**
- **Stackable Contacts**
- **Positive Open Contacts** →
  Per IEC - 609 47 - Parts
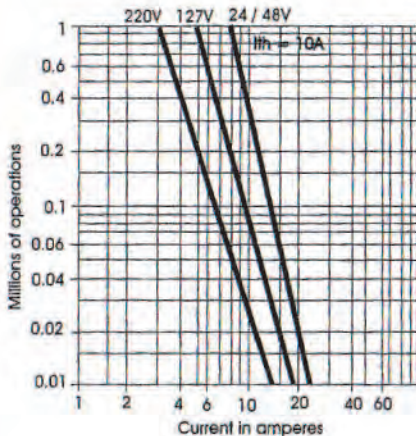
**AC Ratings, Inductive - NEMA A600
35% Power Factor**

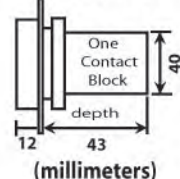| Volts	Make Amperes	VA	Break Amperes	VA	Continuous carrying Amperes	Resistive 75% Power factor Make, Break & continuous Amperes
120	60	7200	6	720	10	10
240	30	7200	3	720	10	10
480	15	7200	1.5	720	10	10
600	12	7200	1.2	720	10	10

**DC Ratings, UL Type Q600
Inductive and resistive Amps**

Volts	Amps Make & Break	Amps Continuous
125	0.55	2.5
250	0.27	2.5
600	0.10	2.5

Minimum AC/DC 17 Volts, 25mA

Pushbutton Dimensions

One Contact Block
40
depth
12   43
(millimeters)

(Graph: Millions of operations vs Current in amperes; 220V, 127V, 24/48V; Ith = 10A)

Example:

R-GL-10-A

Green illuminated PB with 1N.O. contact & 110V bulb.

Illuminated Flush Pushbutton

Operator Only	
Green	R-GL
Red	R-RL
Yellow	R-YL
Blue	R-BLL
List $	$4.50

Part #	1 Open Contact -* 10 List	1 Closed Contact -* 01 List	2 Open Contacts -* 20 List	2 Closed Contacts -* 02 List	1 Closed, 1 Open Contacts -* 11 List	LED Bulb Voltage -^	Voltage
R-GL-*-^	$20.50	$20.50	$25.50	$25.50	$25.50	M	12 V AC/DC
R-RL-*-^	$20.50	$20.50	$25.50	$25.50	$25.50	G	24 V AC/DC
R-YL-*-^	$20.50	$20.50	$25.50	$25.50	$25.50	O	48 V AC/DC
R-BLL-*-^	$33.50	$33.50	$38.50	$38.50	$38.50	A	110 V AC/DC

Example:

R-RLE-01-A

Red illuminated PB with 1N.C. contact & 110V bulb.

Illuminated Extended Pushbutton

Operator Only	
Green	R-GLE
Red	R-RLE
Yellow	R-YLE
Blue	R-BLLE
List $	$4.50

Part #	1 Open Contact -* 10 List	1 Closed Contact -* 01 List	2 Open Contacts -* 20 List	2 Closed Contacts -* 02 List	1 Closed, 1 Open Contacts -* 11 List	LED Bulb Voltage -^	Voltage
R-GLE-*-^	$20.50	$20.50	$25.50	$25.50	$25.50	M	12 V AC/DC
R-RLE-*-^	$20.50	$20.50	$25.50	$25.50	$25.50	G	24 V AC/DC
R-YLE-*-^	$20.50	$20.50	$25.50	$25.50	$25.50	O	48 V AC/DC
R-BLLE-*-^	$33.50	$33.50	$38.50	$38.50	$38.50	A	110 V AC/DC

Example:

R-RL-M0-01-G

Red illuminated Mushroom operator with 1N.C. contact & 24V bulb.

Illuminated Mushroom Pushbutton

	Operator Only	
MOMENTARY	Green	R-GL-MO
	Red	R-RL-MO
	List $	$7.00
Maintained Push/Pull	Green	R-GL-MA
	Red	R-ESTOP-L
	List $	$10.00

Part #	1 Open Contact -* 10 List	1 Closed Contact -* 01 List	2 Open Contacts -* 20 List	2 Closed Contacts -* 02 List	1 Closed, 1 Open Contacts -* 11 List	Incandescent Bulb Voltage -^	Voltage
R-GL-MO*-^	$18.50	$18.50	$23.50	$23.50	$23.50	M	12 V AC/DC
R-RL-MO*-^	$18.50	$18.50	$23.50	$23.50	$23.50	G	24 V AC/DC
						O	48 V AC/DC
R-GL-MA*-^	$21.50	$21.50	$26.50	$26.50	$26.50	A	110 V AC/DC
R-ESTOP-L-*-^	$21.50	$21.50	$26.50	$26.50	$26.50	C	220V AC

Example:

R-GL-2-10-A

Green illuminated 2 Position selector with 1N.O. contact & 110V bulb.

Illuminated Selector Switches

	Operator Only	
2 Position	Green	R-GL-2
	Red	R-RL-2
	Yellow	R-YL-2
3 Position	Green	R-GL-3
	Red	R-RL-3
	Yellow	R-YL-3
	List $	$10.00

Part #	1 Open Contact -* 10 List	1 Closed Contact -* 01 List	2 Open Contacts -* 20 List	2 Closed Contacts -* 02 List	1 Closed, 1 Open Contacts -* 11 List	Incandescent Bulb Voltage -^	Voltage
R-GL-2*-^	$21.50	$21.50	$26.50	$26.50	$26.50	M	12 V AC/DC
R-RL-2*-^	$21.50	$21.50	$26.50	$26.50	$26.50	G	24 V AC/DC
R-YL-2*-^	$21.50	$21.50	$26.50	$26.50	$26.50	O	48 V AC/DC
						A	110 V AC/DC
R-GL-3*-^			$26.50	$26.50	$26.50	C	220V AC
R-RL-3*-^			$26.50	$26.50	$26.50		
R-YL-3*-^			$26.50	$26.50	$26.50		

Enclosed E-Stop Stations Push Pull

Description
Plastic
Aluminum

Assembled Units

Part #	1 Normally Closed Contact -* 01	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-R-PP-*-P	$38.00	$43.00	$43.00
R-R-PP-*-A	$46.00	$51.00	$51.00

Enclosed E-Stop Stations Key to Release

Description
Plastic
Aluminum

Part #	1 Normally Closed Contact -* 01	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-ESTOPKEY-*-P	$44.00	$49.00	$49.00
R-ESTOPKEY-*-A	$52.00	$55.00	$55.00

Enclosed E-Stop Stations Twist to Release

Description
Plastic
Aluminum

Part #	1 Normally Closed Contact -* 01	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-ESTOP- * -P	$38.00	$43.00	$43.00
R-ESTOP- * -A	$46.00	$51.00	$51.00

Emergency Palm Pushbutton

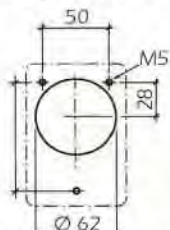| Description	Part #	List Price	Illuminated Part #	List Price
Maintained	060EPAR	$130.00	060EPADR	$156.00
Momentary	060EPR	$115.00	060EPDR	$138.00
Palm Button Enclosure	060S (GREY)	$12.00	060SG (Yellow)	$12.00

75mm

112mm

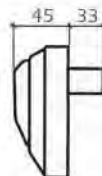**Mechanical Latch on Maintained Palm Buttons**

Side View

UL, CSA, CE NEMA 4, IP65, 600V, 10 Amp Thermal Current, 6 Amp 110V,3A 220V Make & Break Current.
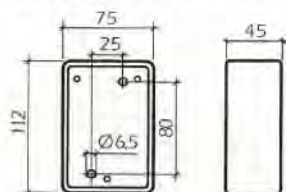
Enclosure

Mounting Holes

Side View

NEMA 1 Rated Dual Start / Stop Momentary Pushbuttons ᶜ(UL)ᵤₛ

(Boot Fits R-S-STPL Version)			**Assembled** Pushbuttons with 1 N.O. + 1N.C. Contacts		
Operator only					Extended
Part #	R-S-ST	R-S-STPL	BSC-DT Boot	Part #	R-S-ST-11	R-S-STPL-11-* (includes bulb)	EXT-ST-11- * (includes bulb)
List Price	$5.00	$6.00	$6.00	List Price	$15.00	$24.00	$12.00

EE CONTROLS

Selector Switch (Short Lever)

Two Position (Short Lever)			Operator Only
Two Position		Maintained	R-2M
		Spring Return	R-2R
Three Position		Maintained	R-3M
		Spring Return to Center	R-3R
		Spring Return Left to Center	R-3SLeft
		Spring Return Right to Center	R-3SRight
		List $	$9.00

Assembled Units

	Single Contact	Double Contact
Part #	1 Normally Open Contact -* 10	2 Normally Open Contacts -* 20
R-2M-*	$14.00	
R-2R-*	$14.00	
R-3M-*		$19.00
R-3R-*		$19.00
R-3SLeft-*		$19.00
R-3SRight-*		$19.00

Selector Switch (Long Lever)

			Operator Only
Two Position		Maintained	RL-2M
		Spring Return to Center	RL-2R
Three Position		Maintained	RL-3M
		Spring Return to Center	RL-3R
		Spring Return Left to Center	RL-3SLeft
		Spring Return Right to Center	RL-3SRight
		List $	$9.00

Assembled Units

	Single Contact	Double Contact
Part #	1 Normally Open Contact -* 10	2 Normally Open Contacts -* 20
RL-2M-*	$14.00	
RL-2R-*	$14.00	
RL-3M-*		$19.00
RL-3R-*		$19.00
RL-3SLeft-*		$19.00
RL-3SRight-*		$19.00

Keyed Selector Switch (Maintained)

		Key Removal	Operator Only
Two Position		Both Positions	R-2KEY
		Left Position	R-2KEYL
		Right Position	R-2KEYR
Three Position		All Positions	R-3KEY-AP
		Center Position	R-3KEY-C
		Left & Right Positions	R-3KEY-RL
		Left Position	R-3KEY-L
		Right Position	R-3KEY-RL
		List $	$12.00

Assembled Units

	Single Contact	Double Contact
Part #	1 Normally Open Contact -* 10	2 Normally Open Contacts -* 20
R-2KEY-*	$17.00	
R-2KEYL-*	$17.00	
R-2KEYR-*	$17.00	
R-3KEY-AP-*		$22.00
R-3KEY-C-*		$22.00
R-3KEY-RL-*		$22.00
R-3KEY-L-*		$22.00
R-3KEY-RL-*		$22.00

Keyed Selector Switch (Momentary)

	Spring Return	Key Removal	Operator Only
Two Pos.	Right to Left	Left	R-KEYC-2M
Three Position	To Center	Center	R-3M
	Right to Center	Center	R-3KEY-CSTOC
		List $	$12.00

Assembled Units

	Single Contact	Double Contact
Part #	1 Normally Open Contact -* 10	2 Normally Open Contacts -* 20
R-KEYC-*	$17.00	
R-3KEY-CSTOC-*		$22.00
R-3KEY-CSTRT-*		$22.00

Discount Schedule B

E E CONTROLS

Assembled Units

● NEMA 4　　● IP65　　● c UL us　　● C E

Momentary Flush Pushbutton	Operator Only
Green	R-G
Red	R-R
Black	R-B
Yellow	R-Y
Blue	R-BL
White	R-W
Arrow	R-AR
List $	$4.00

	Single Contact		Double Contacts		
Part #	1 Normally Open Contact -* 10	1 Normally Closed Contact -* 01	2 Normally Open Contacts -* 20	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-G-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-R-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-B-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-Y-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-BL-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-W-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-AR-*	$9.00	$9.00	$14.00	$14.00	$14.00

Momentary Extended Pushbutton	Operator Only
Green	R-G-E
Red	R-R-E
Black	R-B-E
Yellow	R-Y-E
Blue	R-BL-E
White	R-W-E
Arrow	R-AR-E
List $	$4.00

	Single Contact		Double Contacts		
Part #	1 Normally Open Contact -* 10	1 Normally Closed Contact -* 01	2 Normally Open Contacts -* 20	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-G-E-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-R-E-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-B-E-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-Y-E-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-BL-E-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-W-E-*	$9.00	$9.00	$14.00	$14.00	$14.00
R-AR-E-*	$9.00	$9.00	$14.00	$14.00	$14.00

40mm Momentary Mushroom Pushbutton	Operator Only
Green	R-G-M
Red	R-R-M
Black	R-B-M
Yellow	R-Y-M
Blue	R-BL-M
White	R-W-M
List $	$6.00

	Single Contact		Double Contacts		
Part #	1 Normally Open Contact -* 10	1 Normally Closed Contact -* 01	2 Normally Open Contacts -* 20	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-G-M-*	$11.00	$11.00	$16.00	$16.00	$16.00
R-R-M-*	$11.00	$11.00	$16.00	$16.00	$16.00
R-B-M-*	$11.00	$11.00	$16.00	$16.00	$16.00
R-Y-M-*	$11.00	$11.00	$16.00	$16.00	$16.00
R-BL-M-*	$11.00	$11.00	$16.00	$16.00	$16.00
R-W-M-*	$11.00	$11.00	$16.00	$16.00	$16.00

Extra Contact Blocks

Side View 3 Max. Blocks

Stackable Contacts

3 MAX. Contact Blocks, Per Row (2 rows) = 6 Poles Max.

Rear View

Row: 1　2

Terminal Marking Numbers	Maximum Six Poles Per Operator			
	Contact Block 10A 600A		Part #	List Price
3 - 4	Normally Open		R-NO	$5.00
13 - 14	Normally Open		R-NO1314	$5.00
1 - 2	Normally Closed		R-NC	$5.00
21 - 22	Normally Closed		R-NC2122	$5.00
1 - 2	N.C. with Gold Flash		R-NC-G	$12.00
3 - 4	N.O. with Gold Flash		R-NO-G	$12.00
Gold Contacts 17V, 10mA Min AC/DC				

Metal Chrome Bezel	Steel Block Holder Included with operators	Bolt - On Contact Block

A Secure + Safe System Versus Snap on Contacts

Assembled Units

E-Stop Mushroom Push Pull

	Operator Only
Red	R-R-PP
List $	$13.00

		Single Contact		Double Contacts		
Part #		1 Normally Open Contact -* 10	1 Normally Closed Contact -* 01	2 Normally Open Contacts -* 20	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-R-PP-*		$18.00	$18.00	$23.00	$23.00	$23.00

40 mm E-Stop Twist to Release

	Operator Only
Red	R-ESTOP
List $	$13.00

		Single Contact		Double Contacts		
Part #		1 Normally Open Contact -* 10	1 Normally Closed Contact -* 01	2 Normally Open Contacts -* 20	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-ESTOP-*		$18.00	$18.00	$23.00	$23.00	$23.00

60 mm E-Stop Twist to Release

	Operator Only
Red	R-ESTOP-60
List $	$13.00

		Single Contact		Double Contacts		
Part #		1 Normally Open Contact -* 10	1 Normally Closed Contact -* 01	2 Normally Open Contacts -* 20	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-ESTOP-60-*		$18.00	$18.00	$23.00	$23.00	$23.00

E-Stop Mushroom Key to Release

	Operator Only
Red	R-ESTOP-KEY
List $	$19.00

		Single Contact		Double Contacts		
Part #		1 Normally Open Contact -* 10	1 Normally Closed Contact -* 01	2 Normally Open Contacts -* 20	2 Normally Closed Contacts -* 02	1 Closed & 1 Open Contacts -* 11
R-ESTOP-KEY-*		$24.00	$24.00	$29.00	$29.00	$29.00

Extra Contact Blocks

Side View 3 Max. Blocks

Stackable Contacts

Rear View

3 MAX. Contact Blocks, Per Row (2 rows) = 6 Poles Max.

Row: 1   2
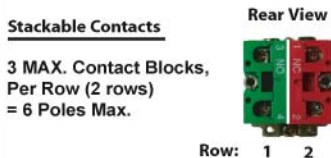
Terminal Marking Numbers	Maximum Six Poles Per Operator			
	10A Contact Block 600A		Part #	List Price
3 - 4		Normally Open	R-NO	$5.00
13 - 14		Normally Open	R-NO1314	$5.00
1 - 2		Normally Closed	R-NC	$5.00
21 - 22		Normally Closed	R-NC2122	$5.00
1 - 2		N.C. with Gold Flash	R-NC-G	$12.00
3 - 4		N.O. with Gold Flash	R-NO-G	$12.00
Gold Contacts 17V, 10mA Min AC/DC				
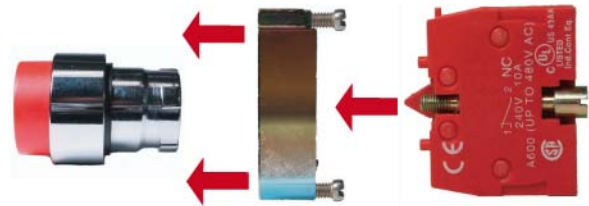
Metal Chrome Bezel	Steel Block Holder Included with operators	Bolt - On Contact Block

A Secure + Safe System Versus Snap on Contacts

LED Pilot Light's Modular 22mm + 30mm

EE CONTROLS

NEMA 4X 22mm

NEMA 4X 22mm

Very Bright

Low Power

Low Heat

- Very Bright Illumination
- Side View Visibility
- Cluster LED's
- Single Piece Design

Dimensional Data

30.5mm
22 + 30mm lights

15mm

52mm

22 (Hole Diameter)
(30mm for 30mm lights)
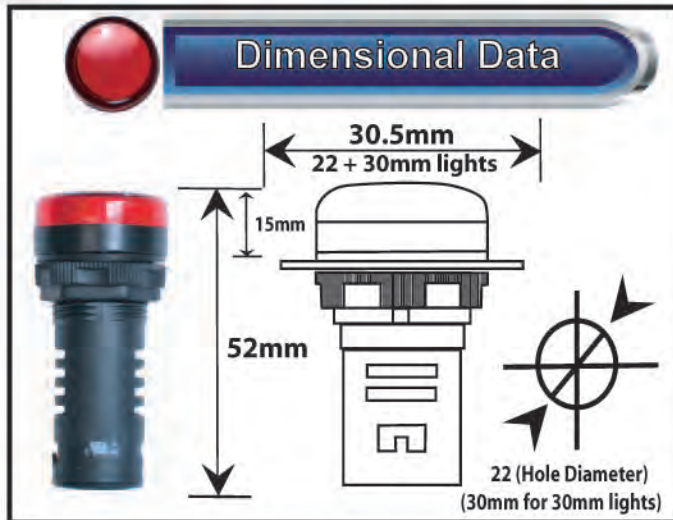
List Price $22.00 Per Light
100 + pcs. mix qty. $16.00 Per Light

Part Numbers	Colors
B22LED-R-*	RED
B22LED-G-*	GREEN
B22LED-Y-*	YELLOW
B22LED-B-*	BLUE
B22LED-W-*	WHITE

*Add Voltage Suffix:

(*) Add Suffix for Colors	
-A	110VAC
-C	220VAC
-G	24VAC/DC
-O	48VAC/DC
-D	380VAC
-M	12VAC/DC

For 30mm LED pilot light simply Add suffix "30" to end of part # - Add $9 to list.
Example - B22LED-R-A-30 $31.00 List.

APPROVALS

cRUus EN 60947-5-1 CE

- Operational Temperature - -13°+ 130°F
- Protection Degree NEMA 4X - IP65
- Current Draw   -Ie MA<80- (6, 12v)
                 20- (24, 48), 110, 220V.
- Brightness   = -cd/M^2 > 60
- AC Rated Frequency = -50/60 HZ
- Saddle Clamp Screw Terminals.
Mounting - 22mm or 30mm hole diameter.

Discount Schedule "B"

"R" - Series
Accessories

● **NEMA 4**   ● **IP65**   ● c(UL)us   ● CE   ● **10 Amp 600 VAC**

	Boot Colors $4.00	Non - Illuminated PART #
NEMA 4X Rubber Boot Recommended for wash down Applications	CLEAR	R-BOOT
	GREEN	R-GBOOT
	RED	R-RBOOT
	AMBER	R-ABOOT
	BLUE	R-BBOOT

Illuminated Pushbuttons Clear BOOT Part # R-BOOTCL

Block Holder	Spare Steel Block Holder (for Non-illuminated Devices) R-Block $2.00
Incandescent spare bulbs $4.00	Part # includes Voltage (AC/DC) R-BULB-6V R-BULB-12V R-BULB-24V R-BULB-48V R-BULB-130V
Spade Connection	Quick connect (male) for "Fast - On" "QC" wiring method Part # R-QC $0.50 List Price
Spare Key	Part# R-Key $2.00 List
Padlock Cover	Part # R-Cover for Pushbuttons ONLY $6.00 List
30 to 22mm Hole Adaptor	Part # R-30 - 22 $2.00 List
Bulb Remover	Part # R-TOOL $4.00 List

Emergency Stop Name Plates $4.00

	Diameter Part #	
EMERGENCY STOP	60mm Plastic	R-60PESTOP
	90mm Plastic	R-90PESTOP
	60mm Aluminum	R-60AESTOP
	90mm Aluminum	R-90AESTOP

Aluminum Name Plates $3.00 List

LIFE SIZE

START

40mm

30mm

22.5 DIN

40mm

30mm

LEGEND PART #	$3.00 List
R-OFF	R-STOP START
R-STOP	R-OPEN
R-START	R-RESET
R-FOWARD	R-CLOSE
R-REVERSE	R-HIGH LOW
R-UP	R-AUTO
R-DOWN	R-HAND
R-HAND OFF AUTO	R-FAST
R-EMERGENCY STOP	R-SLOW
R-OFF ON	R-HIGH
R-INCH	R-LOW
R- Blank	R-Run

Discount Schedule B

NEMA 4 **IP65** c(UL)us CE

Side View 3 Max. Blocks

Stackable Contacts

3 MAX. Contact Blocks,
Per Row (2 rows)
= 6 Poles Max.

Rear View

Row: 1 2

Terminal Marking Numbers	Contact Block		Part #	List Price
	10A	600 A		
3 - 4	Normally Open		R-NO	$5.00
13 - 14	Normally Open		R-NO1314	$5.00
1 - 2	Normally Closed		R-NC	$5.00
21 - 22	Normally Closed		R-NC2122	$5.00
1 - 2	N.C. with Gold Flash		R-NC-G	$12.00
3 - 4	N.O. with Gold Flash		R-NO-G	$12.00

Incandescent Lights (Includes Socket)
Add * Suffix to designate voltage.

Description	Part #	List Price
Bulb and Socket	R-T-*	$6.50

* Add to end of part #

AC/DC Voltage	* Suffix
12	-M
24	-G
48	-O
110	-A
220	-C

Pushbuttons Only

Light Sockets + LED Bulb
Add * Suffix to designate voltage.

Description	Part #	List Price
Exclusively for Illuminated Pushbuttons		
LED - Green	R-G-LED-*	$11.00
LED - Red	R-R-LED-*	$11.00
LED - Yellow	R-Y-LED-*	$11.00
LED - Blue	R-B-LED-*	$24.00

* Add to end of part #

AC/DC Voltage	* Suffix
12	-M
24	-G
48	-O
110	-A

Pushbutton Stations - IP65

R-3PBP

R-1PBA

22mm Holes	Part #	List Price
	Thermoplastic	
1	R-1PBP	$14.00
2	R-2PBP	$15.00
3	R-3PBP	$16.00
4	R-4PBP	$21.00
1(yellow)	R-1PBPY	$14.00

	Aluminum Die Cast	
1	R-1PBA	$20.00
2	R-2PBA	$24.00
3	R-3PBA	$24.00
4	R-4PBA	$29.00

R-1PBPY

R-2PPBA