

Operator Components

Operating Buttons Only

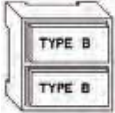
Type A Extended Button

Type A Buttons with Standard Markings ^①

Button Application	Color	Marking	Extended Button Catalog Number	Short Button Catalog Number	Color	Marking	Extended Button Catalog Number	Short Button Catalog Number
	Black	Blank	E30KA100	E30KA150	Green	START	E30KA330	E30KA380
		START	—	E30KA180	Yellow	Blank	E30KA400	E30KA450
Red	Red	Blank	E30KA200	E30KA250	White	Blank	E30KA500	E30KA550
		EMERG. STOP	E30KA204	—	Gray	Blank	E30KA600	E30KA650
		OFF	E30KA218	E30KA268	Brown	Blank	E30KA700	E30KA750
		STOP	E30KA231	E30KA281	Orange	Blank	E30KA800	E30KA950
Green	Green	Blank	E30KA300	E30KA350	Blue	Blank	E30KA900	E30KA950

Type B Extended Button

Type B Buttons with Standard Markings ^②

Button Application	Color	Marking	Extended Button Catalog Number	Short Button Catalog Number	Color	Marking	Extended Button Catalog Number	Short Button Catalog Number
	Black	Blank	E30KB100	E30KB150	Black	REVERSE	E30KB125	E30KB175
		AUTO	E30KB101	E30KB151		RUN	E30KB126	E30KB176
		CLOSE	E30KB102	E30KB152		SLOW	E30KB128	E30KB178
		DOWN	E30KB103	E30KB153		START	E30KB130	E30KB180
		FAST	E30KB105	E30KB155		TEST	E30KB132	E30KB182
		FORWARD	E30KB107	E30KB157		UP	E30KB134	E30KB184
		HIGH	E30KB109	E30KB159	Red	Blank	E30KB200	E30KB250
		IN	E30KB110	E30KB160		EMERG. STOP	E30KB204	—
		INCH	E30KB111	E30KB161		OFF	E30KB218	E30KB268
		JOG	E30KB112	E30KB162		STOP	E30KB231	E30KB281
		JOG FOR.	E30KB113	E30KB163	Green	Blank	E30KB300	E30KB350
		JOG REV.	E30KB114	E30KB164		START	E30KB330	E30KB380
		LOW	E30KB115	E30KB165	Yellow	Blank	E30KB400	E30KB450
		LOWER	E30KB116	E30KB166		Blank	E30KB500	E30KB550
		MAN	E30KB117	E30KB167	White	AUTO	E30KB501	—
		ON	E30KB119	E30KB169		HAND	E30KB508	—
		OPEN	E30KB120	E30KB170	Gray	Blank	E30KB600	E30KB650
		OUT	E30KB121	E30KB171		Blank	E30KB700	E30KB750
		RAISE	E30KB122	E30KB172		Blank	E30KB800	E30KB850
		RESET	E30KB124	E30KB174		Blank	E30KB900	E30KB950

Notes

^① Use with operator E30AA, legend characters 3/16 in (4.8 mm) high.

^② Use with operators E30AB thru AE, AL and DA thru DF, legend characters 3/16 in (4.8 mm) high.

Type C Extended Button

Type C Buttons with Standard Markings ^①

Button Application	Color	Marking	Extended Button Catalog Number	Short Button Catalog Number	Color	Marking	Extended Button Catalog Number	Short Button Catalog Number
	Black	Blank	E30KC100	E30KC150	Black	RESET	E30KC124	E30KC174
		AUTO	E30KC101	E30KC151		REVERSE	E30KC125	E30KC175
		CLOSE	E30KC102	E30KC152		RUN	E30KC126	E30KC176
		DOWN	E30KC103	E30KC153		SLOW	E30KC128	E30KC178
		FAST	E30KC105	E30KC155		START	E30KC130	E30KC180
		FORWARD	E30KC107	E30KC157		TEST	E30KC132	E30KC182
		HAND	E30KC108	E30KC158		UP	E30KC134	E30KC184
		HIGH	E30KC109	E30KC159	Red	Blank	E30KC200	E30KC250
		IN	E30KC110	E30KC160		OFF	E30KC218	—
		INCH	E30KC111	E30KC161		STOP	E30KC231	E30KC281
		JOG	E30KC112	E30KC162	Green	Blank	E30KC300	E30KC350
		JOG FOR.	E30KC113	E30KC163		START	E30KC330	E30KC380
		JOG REV.	E30KC114	E30KC164	Yellow	Blank	E30KC400	E30KC450
		LOW	E30KC115	E30KC165		Blank	E30KC500	E30KC550
		LOWER	E30KC116	E30KC166	Gray	Blank	E30KC600	E30KC650
		MAN	E30KC117	E30KC167		Blank	E30KC700	E30KC750
		ON	E30KC119	E30KC169	Brown	Blank	E30KC800	E30KC850
		OPEN	E30KC120	E30KC170		Blank	E30KC900	E30KC950
		OUT	E30KC121	E30KC171	Orange	Blank		
		RAISE	E30KC122	E30KC172		Blank		

Note

^① Use with operators E30AF thru AK, AL thru AM and DG thru DM, legend characters 1/8 in (3.2 mm) high.

Operating Buttons and Lens Only**Standard Color Buttons and Lens Marking** ^①

Black lettering on — White, Amber, Yellow and Clear.

White lettering on — Green, Red, Blue, Brown, Black, Orange and Gray.

Type E Button**Type E Buttons with Standard Markings** ^②

Button Application	Color	Marking	Extended Button Catalog Number	Color	Marking	Extended Button Catalog Number
	Black	Blank	E30KE100	Black	RESET	E30KE124
		CLOSE	E30KE102		REVERSE	E30KE125
		DOWN	E30KE103		RUN	E30KE126
		FAST	E30KE105		SLOW	E30KE128
		FORWARD	E30KE107		START	E30KE130
		HIGH	E30KE109	Red	TEST	E30KE132
		IN	E30KE110		UP	E30KE134
		INCH	E30KE111		Blank	E30KE200
		JOG	E30KE112		OFF	E30KE218
		JOG FOR.	E30KE113		STOP	E30KE231
		JOG REV.	E30KE114	Green	Blank	E30KE300
		LOW	E30KE115		START	E30KE330
		LOWER	E30KE116	Yellow	Blank	E30KE400
		ON	E30KE119		Blank	E30KE500
		OPEN	E30KE120	Gray	Blank	E30KE600
		OUT	E30KE121		Blank	E30KE700
		PHASE	E30KE122	Brown	Blank	E30KE800
					Blank	E30KE900

Type F Lens**Type F Lenses with Standard Markings** ^③

Button Application	Color	Marking	Catalog Number	Color	Marking	Catalog Number
	Red	Blank	E30KF10	Green	OFF	E30KF22
		MOTOR RUN	E30KF11		Blank	E30KF30
		ON	E30KF12	Blue	Blank	E30KF40
		POWER ON	E30KF13		Blank	E30KF50
	Green	Blank	E30KF20	White	Blank	E30KF60
		MOTOR STOP	E30KF21			
		MOTOR RUN	E30KF23			

Notes

^① For lenses with special markings or with standard markings but in a different color, refer to instructions on **Pages V7-T1-207 to V7-T1-209**.

^② Use with operators E30EA thru EM, FA thru FM and JA thru JM, legend characters 1/8 in (3.2 mm) high.

^③ Use with operators E30BA thru BY, legend characters 3/16 in (4.8 mm) high.

Operating Lens Only**Standard Color Buttons and Lens Marking** ^①

Black lettering on — White, Amber, Yellow and Clear.

White lettering on — Green, Red, Blue, Brown, Black, Orange and Gray.

Type G Lens**Type G Lenses with Standard Markings** ^②

Lens Application	Color	Marking	Catalog Number	Color	Marking	Catalog Number
	Red	Blank	E30KG10	Green	OFF	E30KG22
		MOTOR RUN	E30KG11		READY	E30KG23
		ON	E30KG12	Amber	Blank	E30KG30
		POWER ON	E30KG13		Blank	E30KG40
	Green	Blank	E30KG20	Blue	Blank	E30KG40
		MOTOR RUN	E30KG24	Clear	Blank	E30KG50
		MOTOR STOP	E30KG21	White	Blank	E30KG60

Type J Lens**Type J Lenses with Standard Markings** ^③

Lens Application	Color	Marking	Catalog Number	Color	Marking	Catalog Number
	Red	Blank	E30KJ10	Green	OFF	E30KJ22
		MOTOR RUN	E30KJ11		ON	E30KJ24
		ON	E30KJ12	Amber	Blank	E30KJ30
		POWER ON	E30KJ13		Blank	E30KJ40
		MOTOR STOP	E30KJ14	Blue	Blank	E30KJ40
	Green	Blank	E30KJ20	Clear	Blank	E30KJ50
		MOTOR STOP	E30KJ21	White	Blank	E30KJ60
		MOTOR RUN	E30KJ23			

Type K Lenses**Type K Lenses with Standard Markings (Sold in Pairs Only)** ^④

Lens Application	Color	Left Hand Lens	Right Hand Lens	Marking	Left Hand Lens	Right Hand Lens	Catalog Number
	Red		Red	ON	ON		E30KK12
			Green	ON	OFF		E30KK13
	Green			OFF	OFF		E30KK22
			Red	OFF	ON		E30KK23

Notes

^① For lenses with special markings or with standard markings but in a different color, refer to instructions on **Pages V7-T1-207 to V7-T1-209**.

^② Use with operators E30CA thru CM and DA thru DM, legend characters 3/16 in (4.8 mm) high except MOTOR RUN, POWER ON and MOTOR STOP are 1/8 in (3.2 mm) high.

^③ Use with operators E30EA thru EM, FA thru FM and GA thru GM, legend characters 1/8 in (3.2 mm) high.

^④ Use with operators E30JA thru JW, legend characters 1/8 in (3.2 mm) high

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Type K Lenses



Type K Lenses—Blank (Sold in Pairs Only)

Color			Color		
Left Hand Lens	Right Hand Lens	Catalog Number	Left Hand Lens	Right Hand Lens	Catalog Number
Red	Red	E30KK10	Blue	Red	E30KK41
	Green	E30KK11		Green	E30KK42
	Amber	E30KK17		Amber	E30KK43
	Blue	E30KK14		Blue	E30KK40
	Clear	E30KK15		Clear	E30KK45
	White	E30KK16		White	E30KK46
Green	Red	E30KK21	Clear	Red	E30KK51
	Green	E30KK20		Green	E30KK52
	Amber	E30KK27		Amber	E30KK53
	Blue	E30KK24		Blue	E30KK54
	Clear	E30KK25		Clear	E30KK50
	White	E30KK26		White	E30KK56
Amber	Red	E30KK31	White	Red	E30KK61
	Green	E30KK32		Green	E30KK62
	Amber	E30KK30		Amber	E30KK63
	Blue	E30KK34		Blue	E30KK64
	Clear	E30KK35		Clear	E30KK65
	White	E30KK36		White	E30KK60

Technical Data and Specifications

Operator Specifications

Description	Specification
Climate Conditions	
Operating	–20° to 150°F (–29° to 65°C)
Terminals	
Light units	Terminals are saddle clamp type for 2 stranded or solid wires up to 12 AWG (4.0 mm ²) Torque—7 lb-in (0.8 Nm)
Contact block	Terminals are saddle clamp type for 2 stranded or solid wires up to 12 AWG (4.0 mm ²) Torque—7 lb-in (0.8 Nm)
Materials	
Operator	Zinc base die casting with a copper-nickel-chrome plated finish Withstands the 200 hr. salt spray test in accordance with MIL Spec. QQ-M-151A and NEMA 4X testing.
Internal parts	Including shafts, washers and springs, are made of stainless steel
Buttons and lenses	Colorfast, wear resistant, molded acetal resin
Contact blocks	Made of molded, heat resistant, mineral filled phenolic Contact block plungers are molded of nylon filled phenolic Contacts are silver
Reliability nibs	These nibs combine a scrubbing action with high pressure density when the contacts are closed They push through particles and films found on contact surfaces in industrial environments Reliability nibs self-adjust to the application—dry circuit, normal or heavy-duty

Reliability Nibs



Electrical Ratings

Contact Blocks

Meet or Exceed NEMA Contact Rating Designation A600 and P300

Description	Vac A600				Vdc P300		
	120V	240V	480V	600V	24/28V	125V	250V
Make and emergency interrupting capacity (Amps)	60	30	15	12	5.73	1.1	0.55
Normal load break (Amps)	6	3	1.5	1.2	5.73	1.1	0.55
Continuous current (Amps)	10	10	10	10	5	5	5

- UL A600/P300 nominal connect 10A
- 1NO, 1NC, 2NO, 2NC, 1NO-1NC, early make, late break and overlapping configurations
- Mechanical positive drive operation on NC contacts
- Palladium alloy contact for logic level or highly corrosive environments

Maximum Ratings for Logic Level and Hostile Atmosphere Application

Description	Specification
Maximum amperes	0.5A ①
Maximum volts	120 Vac/Vdc

Note

① Logic level contact blocks are UL A600/P500 rated per table above.

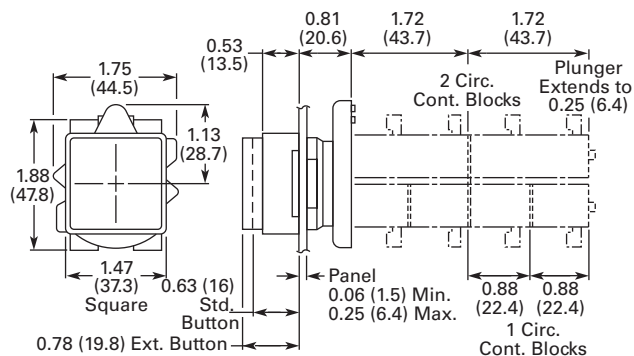
Light Unit

Description	Specification
Bulbs—Average Life	
Transformer type	20,000 hrs.
Resistor/direct voltage type	2,500 hrs. min. at rated voltage
LED	60,000 to 100,000 hrs.

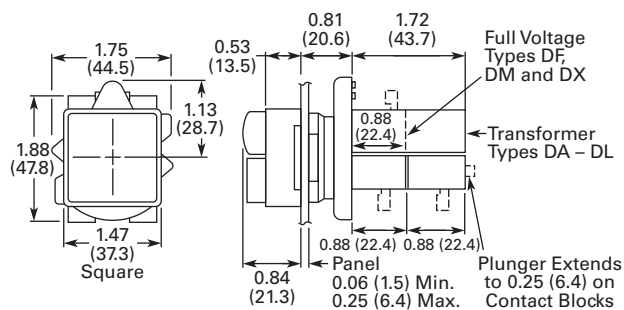
Dimensions

Approximate Dimensions in Inches (mm)

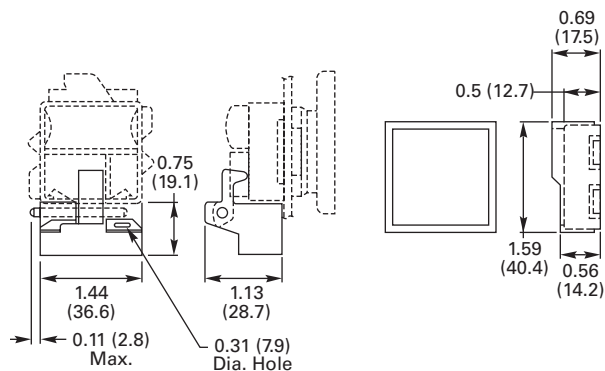
Pushbutton Operators



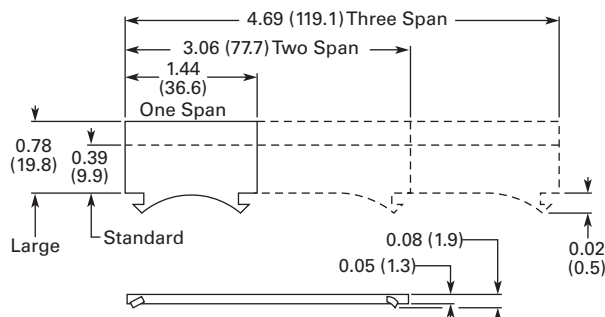
Combination Pushbutton and Indicating Light Operators



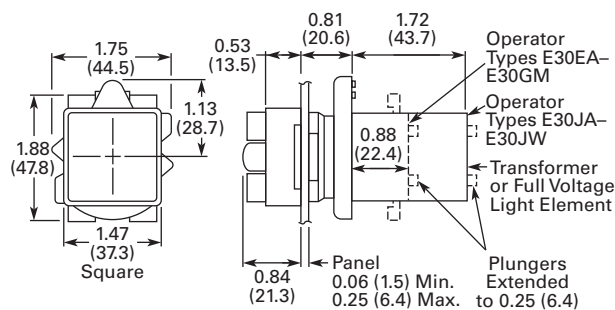
Padlocking Attachment and Half Shroud E30KT7



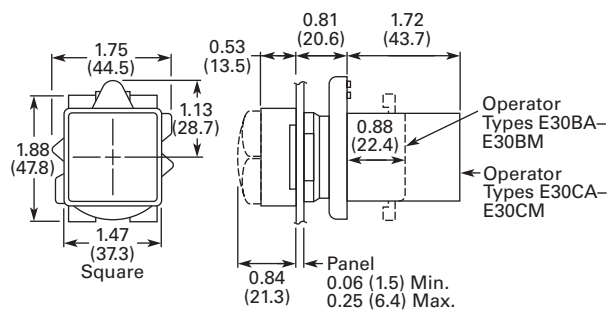
Legend Plates



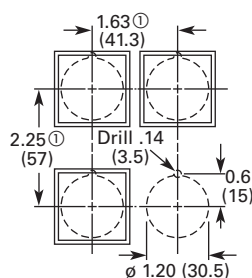
Combination Pushbutton and Indicating Light Operators



Indicating Light Operators



Drilling Dimensions—Minimum Spacing ^{①②}



Notes

- ① Dimensions shown allow adequate space for the addition of one or two high legend plates and color coordinating collars.
- ② Locating nib hole or notch is 0.136 in (3.5 mm) drill. Alternate to drilling mounting holes use Greenlee Tool Co. punch (No. 730-S) to punch the hole and (No. 730-K) to punch the notch.