



ILLUMINATED PUSH BUTTON SWITCH

KBL30 Series**CLASSIFICATION****KBL-30WM - L 1C R 1 1**

① ② ③ ④ ⑤ ⑥ ⑦

① PROTECTION	NONE	IP40
	W	IP65
② ACTUATOR	M	PUSH BUTTON, MOMENTARY
	MP	PUSH BUTTON WITH PROTECTIVE RING, MOMENTARY
	AT	PUSH BUTTON, MAINTAINED
	AP	PUSH BUTTON WITH PROTECTIVE RING, MAINTAINED
	EM	MUSHROOM HEADED PUSH BUTTON, MOMENTARY
	EA	MUSHROOM HEADED PUSH BUTTON, MAINTAINED
	ER	MUSHROOM HEADED PUSH BUTTON, TURN TO RESET
	EP	MUSHROOM HEADED PUSH BUTTON, PULL TO RESET
	③ LAMP TYPE	NONE
L		LED LAMP
④ INPUT VOLTAGE	1A	110VAC AT 50/60 Hz
	2A	220VAC AT 50/60 Hz
	3A	230VAC AT 50/60 Hz
	1C	6V AC/DC
	2C	12V AC/DC
	3C	24 AC/DC
⑤ LAMP COLOR	R	RED
	G	GREEN
	Y	YELLOW
	B	BLUE
	W	WHITE
	O	ORANGE
⑥ CONTACTS	NUMBER	NUMBER OF NO CONTACT
⑦ CONTACTS	NUMBER	NUMBER OF NC CONTACT

CONTROL COMPONENT



CONTROL COMPONENTS



KBL30M - 1A
KBL30M - 2A
KBL30M - 3A

KBL30AT - 1A
KBL30AT - 2A
KBL30AT - 3A

SQUARE LIGHT

TOWER LIGHT

MICRO SWITCH

FOOT SWITCH

LIMIT SWITCH

POWER SWITCH

HOIST SWITCH

CAM SWITCH

BUZZER

PHOTO SENSOR

PROXIMITY SENSOR

FLOATLESS LEVEL SWITCH

TIMER & COUNTER

RELAY

SOCKETS

TERMINAL BLOCK

CONTROL BOX

PID TEMP. CONTROLLER



KBL30MP - 1A
KBL30MP - 2A
KBL30MP - 3A

KBL30AP - 1A
KBL30AP - 2A
KBL30AP - 3A



KBL30M - 1C
KBL30M - 2C
KBL30M - 3C

KBL30A - 1C
KBL30A - 2C
KBL30A - 3C



KBL30MP - 1C
KBL30MP - 2C
KBL30MP - 3C

KBL30AP - 1C
KBL30AP - 2C
KBL30AP - 3C



KBL30EM-1A
KBL30EM-2A
KBL30EM-3A



KBL30EA-1A
KBL30EA-2A
KBL30EA-3A



KBL30EP-1A
KBL30EP-2A
KBL30EP-3A



KBL30ER-1A
KBL30ER-2A
KBL30ER-3A



KBL30EM-1C
KBL30EM-2C
KBL30EM-3C



KBL30EA-1C
KBL30EA-2C
KBL30EA-3C



KBL30EP-1C
KBL30EP-2C
KBL30EP-3C



KBL30ER-1C
KBL30ER-2C
KBL30ER-3C

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TIMER & COUNTER

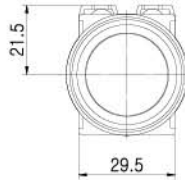
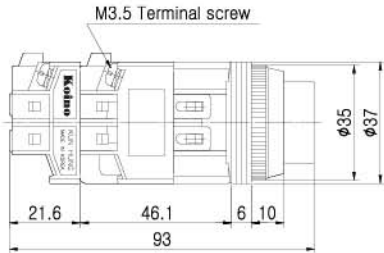
RELAY

SOCKETS

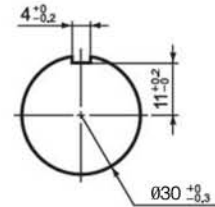
TERMINAL BLOCK

CONTROL BOX

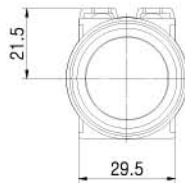
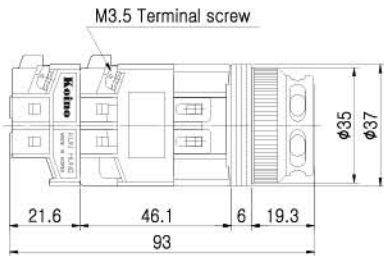
PID TEMP. CONTROLLER



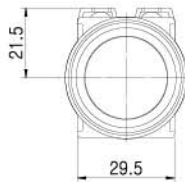
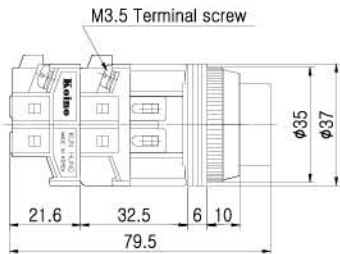
KBL30M
KBL30WM



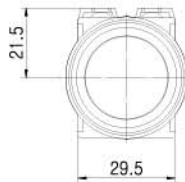
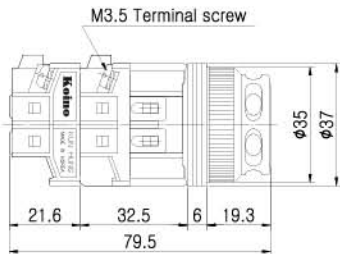
Panel cut-out



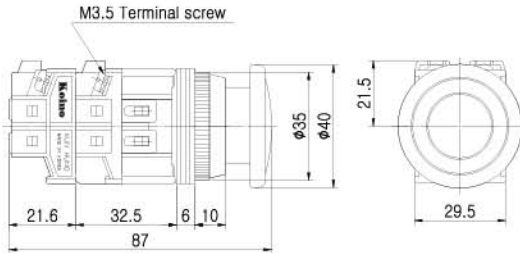
KBL30MP
KBL30WMP



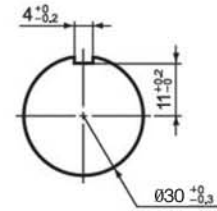
KBL30AT
KBL30WAT



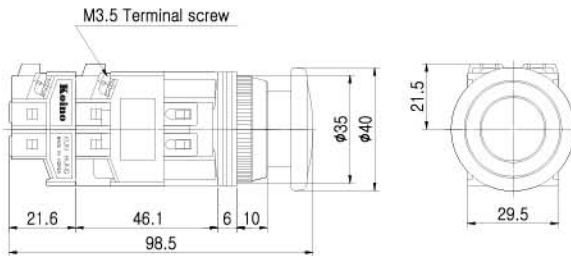
KBL30AP
KBL30WAP



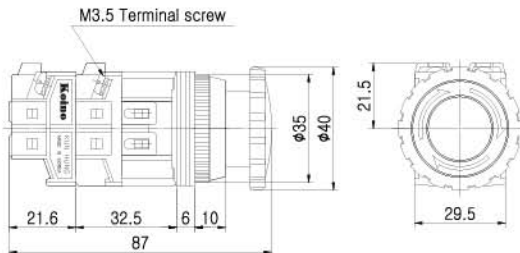
KBL30WEM KBL30EM
KBL30WEA KBL30EA
KBL30WEP KBL30EP
(Without trans.)



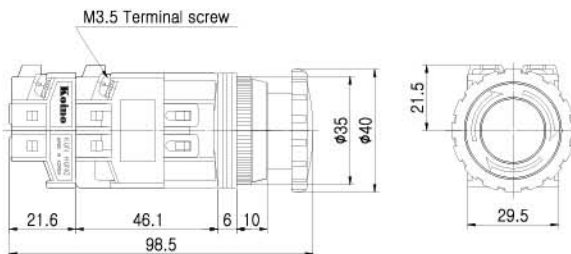
Panel cut-out



KBL30WEM KBL30EM
KBL30WEA KBL30EA
KBL30WEP KBL30EP
(With trans.)



KBL30ER
KBL30WER
(Without trans.)



KBL30ER
KBL30WER
(With trans.)

CONTROL COMPONENTS

SQUARE LIGHT

TOWER LIGHT

MICRO SWITCH

FOOT SWITCH

LIMIT SWITCH

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HOIST SWITCH

CAM SWITCH

BUZZER

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Technical Information

Switching System

The switching element of KSL25 is equipped with normally open contact and normally closed contact.

1A, 1B, 2A, 2B 1A1B, 2A2B 3A1B and 1A3B contacts are available. Normally 4 contact blocks can be assembled

Material

Contact

Silver alloy + Copper

Housing

BODY: Nylon glass

CONTACT HOUSING: Nylon glass

Buttons

Acetal

Ring

ABS (Aluminum ring for KBL30M and KBL30AT is available)

Mechanical Characteristics

Mechanical Lifetime

1,000,000 Cycles of operation

Install

Tightening torque : Max. 0.8N·m

Electrical Characteristics

Standards

This product comply with “ Standards for low-voltage switching devices” EN IEC 60947-5-1

Contact Ratings

250VAC 6A (resistive load)

Insulation Resistance

Minimum 100M Ω (500VDC)

Contact Resistance

Maximum 30m Ω

Electrical Lifetime

100,000 cycles of operation



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Electrical Characteristics—continues

Dielectric Strength

Between Live Parts: 1,500VAC(50/60Hz) for 1 minute

Between Live and Dead Parts: 1,500VAC(50/60Hz) for 1 minute

Environmental conditions

Operational Temperature

-25° C~+50° C

Operational Humidity

45~85%RH

Protection Degree

IP40 / IP65("W" type)

Shock Resistance

Approximately 50G(500m/s²)

Vibration Resistance

10~55Hz double amplitude 1.5mm (at X, Y and Z axis)

Approvals

Approbations

UL, CCC, KC

Declaration of Conformity

CE