

KGN Series Control Stations

IP40 Enclosed Steel Control Stations For ø30 mm TWN/TWND Series Switches/Pilot Lights Various Control Stations are Available

Various control stations are available with most widely used combinations of switches/pilot lights (contact configurations, voltage, button colors, and nameplates).



Specifications

Degree of Protection	IP40 (IEC60529)
Material (Enclosure)	Carbon steel plate (t=1.0mm)
Coating Color (Melamine coating)	Yellow semi-gloss (Munsell 5Y7/1)
Rated Insulation Voltage	600V (Buzzer: 250V)
Insulation Resistance	5 MΩ minimum
Dielectric Strength (Note 1)	Between live and dead parts: 2500V AC, 1 minute
Standard Operating Conditions (Note 2)	Ambient temperature: -25 to +50°C (no freezing) Relative humidity: 45 to 85% (no condensation)
Style	Wall mount (1 to 5 holes)
Cable Lead-in (Wall Mount)	Double knockouts On top: ø22 and ø27 mm On bottom: ø16 and ø20 mm
Applicable Switches/Pilot Lights	IDEC ø30 mm TWN/TWND series

Note 1: Buzzer: 2000V AC, 1 minute

Note 2: Buzzer: -10 to +40°C

Contact Ratings (Contact Block)

Contact Block	Rated Insulation Voltage	600V
	Rated Thermal Current	10A
	Contact Ratings by Utilization Category IEC60947-5-1	AC-15 (A600) DC-13

Operational Voltage and Current by Utilization Category

Operational Voltage		24V	48V	50V	110V	220V	440V
Operational Current	AC (50/60Hz)						
	AC-12 Control of resistive loads and solid state loads	10A	—	10A	10A	6A	2A
	AC-15 Control of electromagnetic loads (>72VA)	10A	—	7A	5A	3A	1A
DC	DC-12 Control of resistive loads and solid state loads	10A	5A	—	2.2A	1.1A	—
	DC-13 Control of electromagnets	5A	2A	—	1.1A	0.6A	—

Common

Minimum applicable load (reference value) = 3V AC/DC, 5 mA (the applicable range is subject to change according to the operating conditions)

Rubber Bushing (Supplied) Color: Black

Enclosure Style	Supplied Bushing			Applicable Knockout Hole
	Part No.	Outside Dia.	Inside Dia.	
1 or 2 holes	GB-2	ø30 mm	ø16 mm	ø20 or ø22 mm
3 or 4 holes	GB-3	ø38 mm	ø20 mm	ø27 mm

Switches/Pilot Lights Mounting Holes

The holes for mounting switches/pilot lights are 30.5 mm in diameter with an anti-rotation notch. Mounting centers are 50 mm.

Double Knockouts

The top and bottom surfaces have double knockouts.

On top: ø22 and ø27 mm double knockouts

On bottom: ø16 and ø20 mm double knockouts

One rubber bushing is supplied to protect lead-in wires from damage on the wire surface; 1- and 2-hole enclosures are supplied with a bushing to fit ø20 and ø22 mm holes, and 3- and 5-hole enclosures with a bushing to fit a ø27 mm hole.

