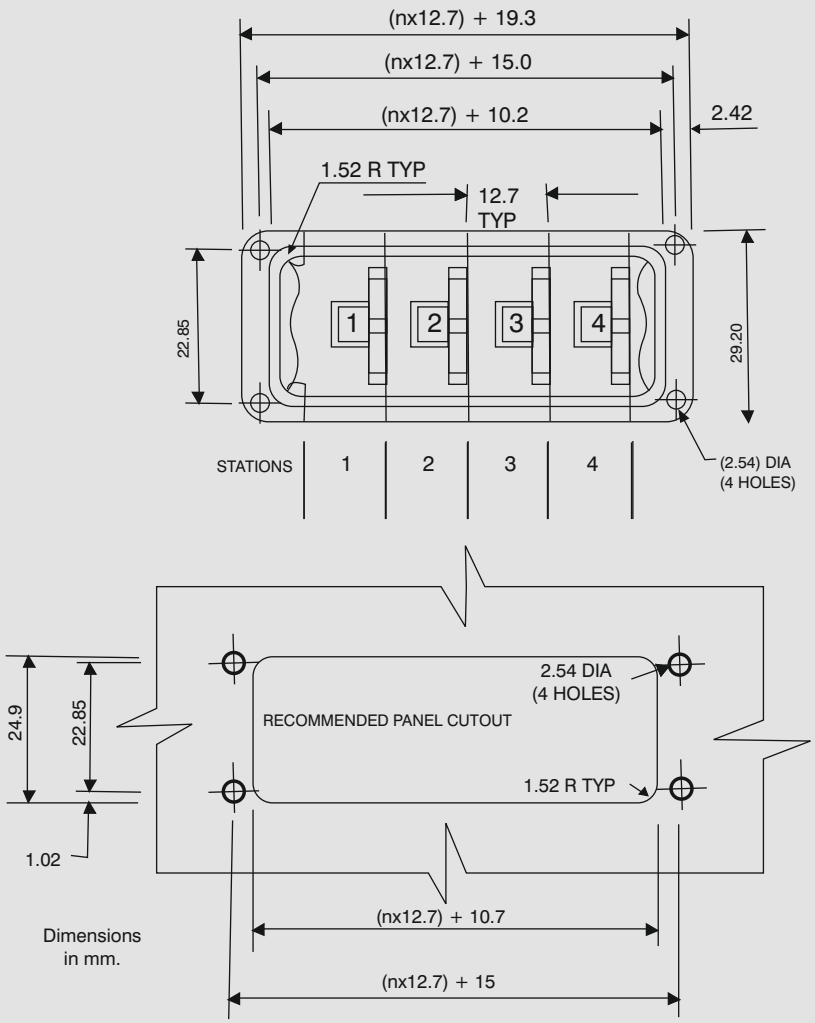
THUMB WHEEL SWITCHES

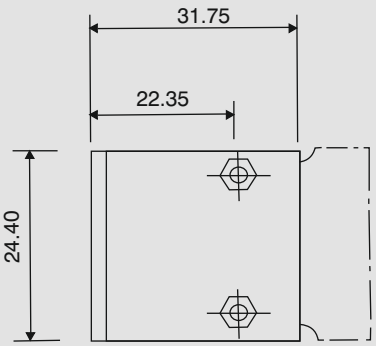
Series TWS-80

DESCRIPTION

Integral Type TWS-80 Thumb Wheel Switches are high quality switches of small size for use in a wide variety of applications in Instrumentation, Machine Controls, Process Controls, etc. TWS-80 is a sturdy rear-mounted type fixed with screws to the panel. Available with an extensive range of output codes, up to 10 modules can be easily coupled with sides, to form any combination as per customer's requirements. The switches have a positive detent action so that the positions snap into place. The switches have large digits hot-stamped for good visibility. The switches can be ordered either as complete assemblies or individual modules with sides separately.

DIMENSIONAL DETAILS





FEATURES

- Field or factory assembled to customer's requirements.
- Factory installed wheel stops.
- Dummy modules to separate switch functions.
- Rear mounting - Screws supplied.
- Large, hot-stamped characters for permanence and visibility.
- Black or grey body and coloured wheels (consult factory).
- Wide range of output codes.

All Dimensions in mm.

SPECIFICATIONS

CONTACT RATING	:	Switching 125 mA max. Carrying : 1 Amp continuous
OPERATING VOLTAGE	:	50 mV to 28 V DC or 120V AC.
CONTACT RESISTANCE	:	Less than 150 milli ohms Initial @ 2-6 V DC, 100 mA.
INSULATION RESISTANCE	:	1000 Megohms min.
DIELECTRIC STRENGTH	:	750 V RMS min @ sea level
ELECTRICAL LIFE	:	100,000 detent operations
OPERATING TEMP	:	-25°C to +70°C
NO. OF POSITIONS	:	8 and 10 (stops available)

MATERIALS & FINISHES

BODY, WHEEL AND CAM	: Engineering Thermoplastics (Polycarbonate/ABS/Poly acetal)
WIPER CONTACT	: Hard Gold over Nickel on Copper Alloy
STATOR CONTACT	: Hard Gold over Nickel over Copper on Glass Epoxy laminated sheet to Nema FR4.
HARDWARE	: Steel, Zinc plated
DETENT SPRING	: Stainless steel wire
SIZE OF CHARACTER ON THE WHEEL	: 8 and 10 positions - 4.5 mm (Consult factory for non-standard printing).

ORDERING INFORMATION : Given below are the variations possible and corresponding ordering code.. In case only theOutput Code (say 22) is specified the standard shall be (8022) a BCD code switch with a Black body, Black wheel without any stop, standard PCB. Consult factory for any other variation not given below. If sides are ordered separately, the order code is 8000 to represent 1 pair of side.

OUTPUT CODES

Order Code	Description
10	SPDT repeating ; 10 pos. (+, - or 0, 5 alternating)
22	BCD 1-2-4-8 ; 10 pos.
28	BCD 1-2-4 ; 8 pos.
31	Decimal 1 pole 10 pos.
41	Complement of BCD 1-2-4-8; 10 pos.
51	Decimal 2 pole 10 pos.
57	BCD 1-2-4-8 with separate common to Not-True-Bits ; 10 pos.

(For other output codes consult factory)

NO. OF SECTIONS

Order Code	Description
01	1 Section without sides
S1	1 Section with sides
S2	2 Sections with sides
S3	3 Sections with sides
Etc.	Etc.

BODY COLOUR

Order Code	Colour
B	Black
G	Grey

TERMINATIONS

Order Code	Description
P	Standard PCB
L	Longer PCB for Diode mounting
A	Assembly (usually with Diodes or resistors, etc.)

WHEEL COLOUR

Order Code	Colour
B	Black
R	Red

WHEEL STOP

Order Code	Description
0 - 2	from 0 to 2
1 - 6	from 1 to 6
Etc.	etc.

ORDERING CODE	8	0																		

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