

THROTTLE ASSEMBLY

MODEL WP 45 THROTTLE

1960-2000

CURTIS



DESCRIPTION

Model WP 45 is a 0-5k Ω wigwag throttle which provides an output for motion in both directions. The conductive plastic element in conjunction with unique wiper and shaft support design provides a durable throttle with longer mechanical cycle life.

WARRANTY

One year from date of delivery.

Application

Curtis Model WP 45 is specifically designed for mobility aids applications which utilize a wig-wag throttle.

Features

- Long cycle life (>3,000,000)
- Self contained & compact package
- Easy mechanical installation
- Easy electrical connections
- No mechanical adjustments
- No electrical calibrations
- Easy actuating lever orientation
- Positive actuating lever attachment
- Easy field replacement

Electrical Characteristics

- Resistance value, R_{tot} : 5k Ω
- Resistance tolerance: $\pm 10\%$
- Output Voltage Range: see order codes below
- Wiper mid position: $1/2 V_s \pm 3\%$
- Insulation resistance: 1000 M Ω
- Dielectric strength: 500 V DC
- Power dissipation: 0.2 W at 40 $^{\circ}$ C
- Maximum supply voltage V_s : 30 VDC
- Maximum wiper current: 1 mA
- Recommended wiper current: <10 μ A
- End resistance: 2x1k Ω (WP4504 & 4506)

Mechanical Characteristics

- Mechanical angle: $\pm 20^{\circ}$ (40 $^{\circ}$ in total)
- Lifetime: 3×10^6 movements
- Torque out of the center position: see order codes
- End stop maximum: 300Ncm
- Shaft load Axial: max. 100g
- Mass: 50g

Environmental Specifications

- Temperature range: -25 to +75 degrees $^{\circ}$ C

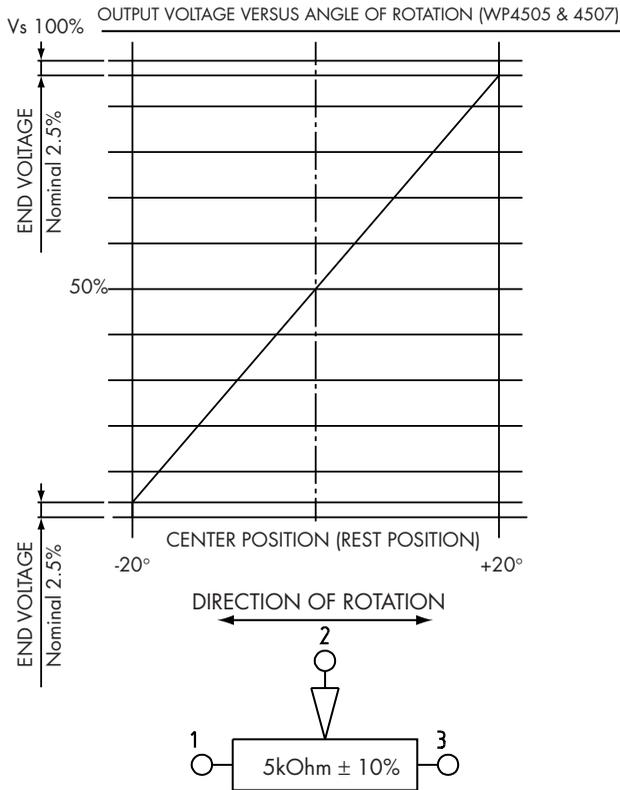
Order Codes

Type	Output Voltage Range	Spring Torque	Part No.
WP 4504	<20%...>80%Vs	20Ncm \pm 3Ncm	15945704
WP 4505	<5%...>95%Vs	20Ncm \pm 3Ncm	15945701
WP 4506	<20%...>80%Vs	33Ncm \pm 3Ncm	15945702
WP 4507	<5%...>95%Vs	33Ncm \pm 3Ncm	15945703

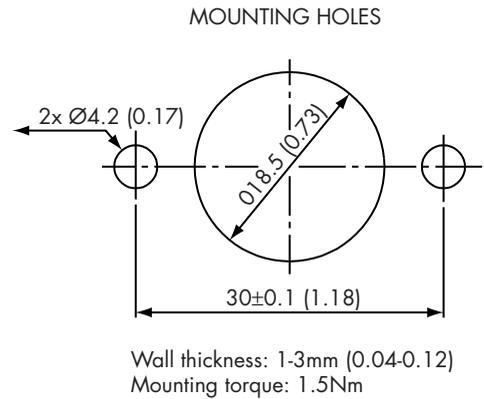
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Voltage Output



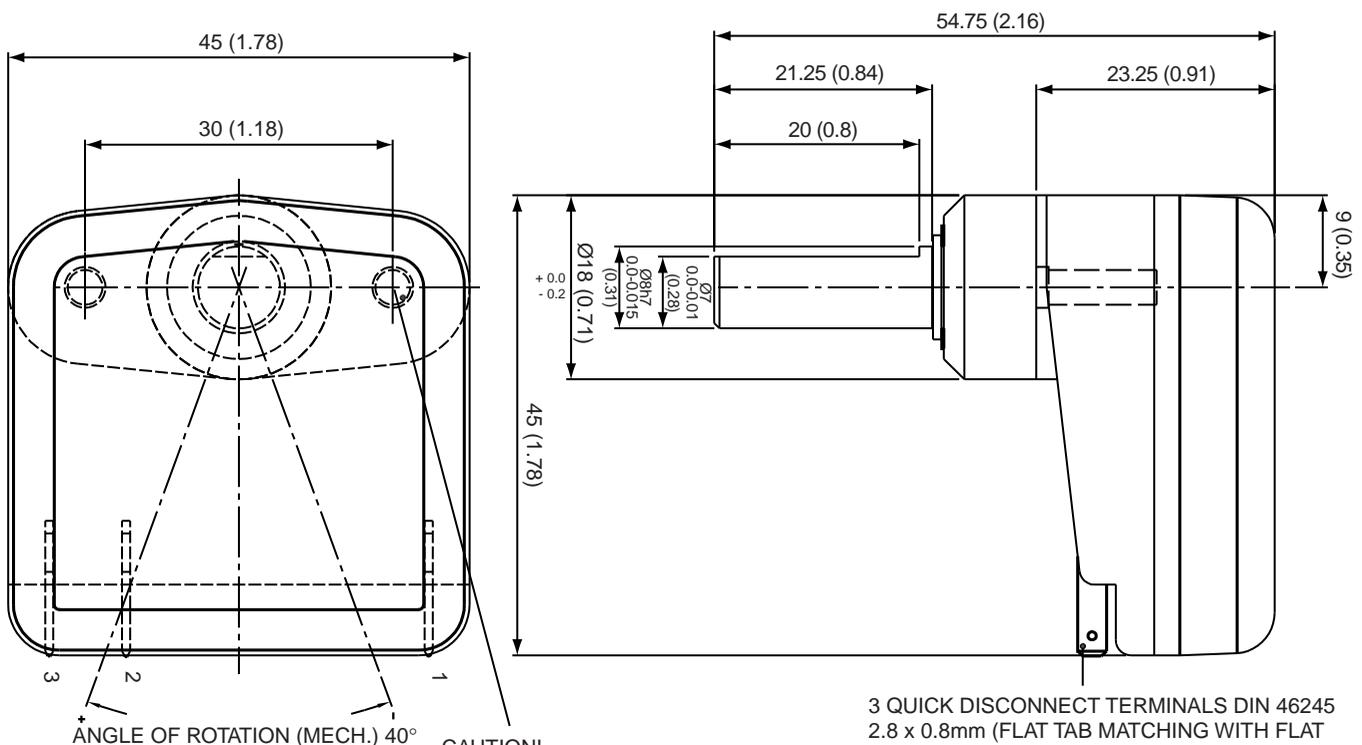
Mounting Dimensions: mm (inches)



Preferred Mounting Orientation

SHAFT VERTICAL POINTING DOWN

Dimensions: mm (inches)



3 QUICK DISCONNECT TERMINALS DIN 46245
2.8 x 0.8mm (FLAT TAB MATCHING WITH FLAT
RECEPTACLES OF THE FITTING SIZE)

CAUTION!
FIXATION SHOULD BE MADE
WITH DELIVERED SELF TAPPING
PT-SCREWS WN1412 K 40, LENGTH 12mm (0.47),
INOX MAX. PENETRATING DEPTH: 7.5mm (0.30)
BOSSARD INT. INC. STD. BN 13579