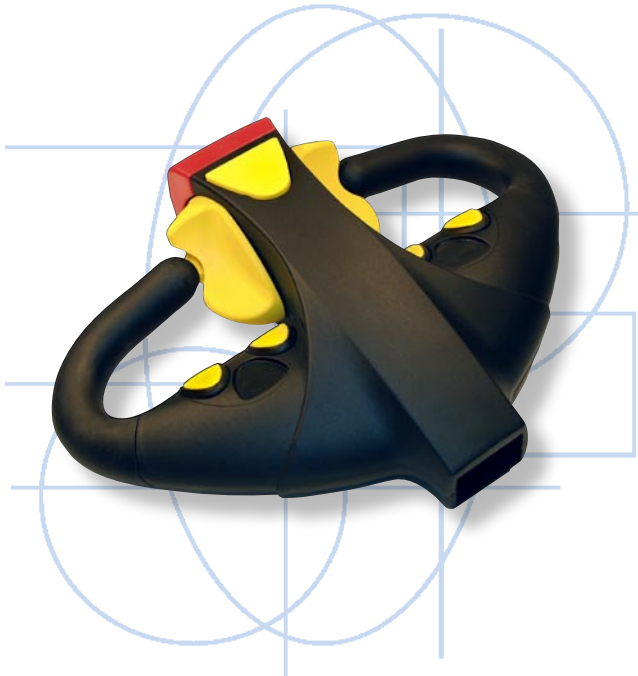




MODEL TH-1



FEATURES

- Ergonomic design maximizes vehicle and operator productivity while minimizing operator fatigue.
- Nylon PA6-GF30 housing and sealed electronics make the tiller head ideal for use in all types of environments - the tiller head can even be used reliably in the rain.
- Optional proportional switches provide more precise lift and lower control, thereby improving safety.
- A single electrical connector makes wiring easy to install, reducing vehicle assembly costs and eliminating costly wiring errors.
- Highly configurable - Curtis can supply tiller heads for all of your different applications.
- Curtis tiller heads integrate seamlessly with applicable Curtis motor controllers, contactors, and instrumentation.

DESCRIPTION

The Curtis TH series are tiller heads packaged in a rugged housing that offer an attractive and practical method of controlling 24V electric vehicles.

APPLICATION

Equipped with an emergency reverse switch, electronic throttle, and lift and lower switches rated at IP-67, these tiller heads are ideal for both indoor and outdoor vehicles such as pallet jacks, walkies, stackers and tow tractors.

SPECIFICATIONS

Throttle Output:

0.2 - 5.0VDC nominal (0.15VDC - 5.3VDC, absolute)

Operating Voltage:

24VDC nominal (19.2VDC - 28.8VDC, absolute)

Maximum current, output switches:

1.5A each (lift, lower, horn, turtle)

Weight:

3.3 lbs., maximum (1.5 kg)

Force required to engage lift, lower, horn and turtle switches:

2.2 lbs. (10N)

Force required to engage belly button switch:

2.2 lbs. (10N)

CURTIS INSTRUMENTS, INC.

200 KISCO AVENUE
MT. KISCO, NY 10549 USA
TEL (914) 666-2971
FAX (914) 666-2188

CURTIS INSTRUMENTS, (UK) LTD.

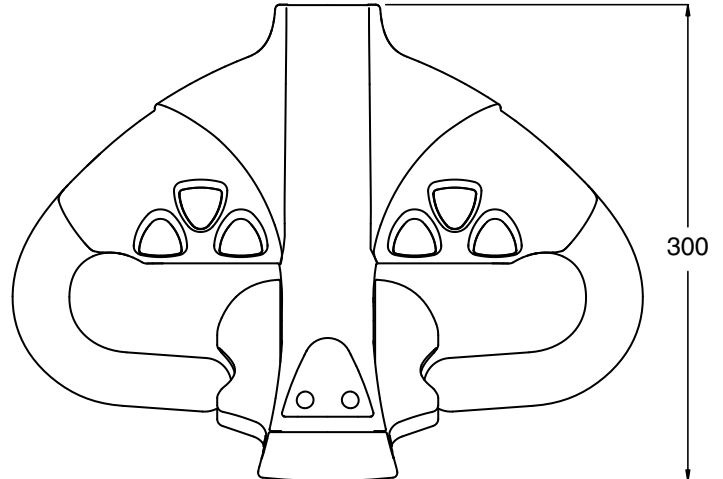
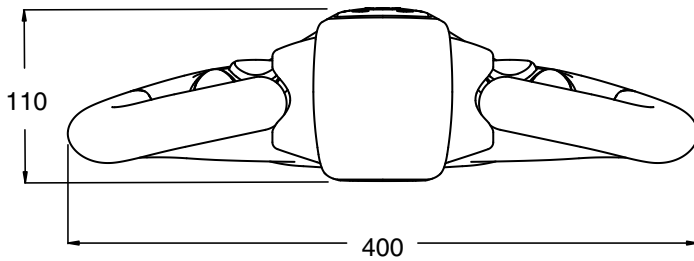
5 UPPER PRIORY STREET
NORTHAMPTON NN1 2PT, ENGLAND
TEL 44 (0) 1604-629755
FAX 44 (0) 1604-629876

CURTIS INSTRUMENTS INDIA PRIVATE LTD.

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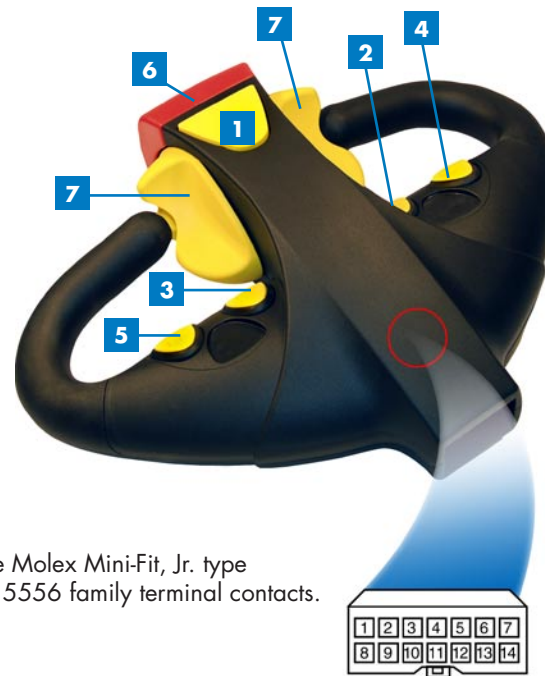
MODEL TH-1

DIMENSIONS mm



WIRING

Pin	Function
1	B+
2	B-
3	Throttle 7
4	Lift switch 2 3
5	Turtle switch (not shown)
6	None
7	Belly button switch 6
8	Connected to Pin 1
9	Connected to Pin 2
10	Reverse, 24V active high
11	Forward, 24V active high
12	Lower 4 5
13	Horn 1
14	None



Connector (found inside the tiller head on the PCB): Use Molex Mini-Fit, Jr. type 5557D connector with appropriate Molex Mini-Fit type 5556 family terminal contacts.

OPTIONS (contact your local sales office)

- Proportional switches (maximum of 2, output varies with the amount of pressure on the switch)
- Up to 6 triangular switches (of which 2 can be proportional)
- Serial communication
- CAN communication
- Keyswitch
- Emergency-off button
- BDI
- Custom colors for buttons and/or housing
- Custom icons or artwork on buttons

WARRANTY Two year limited warranty from time of delivery.