

温州联宝贸易有限公司

Wenzhou Linp Trading co., ltd.

乐清市欧姆特尔电子科技有限公司

Yueqing Omtel electronic technology co., ltd.

OM11 系列工业手柄 OM11 series industry handle



产品特点Product characteristic

- ◀ 弹簧自动复位。
Spring automatic return.
- ◀ 可单轴双向操作；可双轴任意操作。
Could single axis both sides to operation; Could double axis any direction operation
- ◀ 带中心抽头电位器角度检测方式。
With center-tapped potentiometer angle detection method
- ◀ 最大电流10mA以下方向开关。
Below maximum current 10mA direction switch.
- ◀ 可带电压转换的电路板DC24V电源电压，-10V~0V~+10V电压输出或+10V~0V~+10V。
Could with the voltage converter board of DC24V power supply voltage, -10V~0V~+10V voltage output or +10V~0V~+10V.
- ◀ 可带比例放大板直接驱动液压比例阀。驱动电流0.5~3A可调。
Could with scaling board direct drive hydraulic proportional valve. Drive current 0.5~3A adjustable.

应用范围Application scope

该系列产品主要应用于工程车辆、工程机械。

This series product mainly applies in the project vehicles, the project machinery.

技术参数 Technical parameter

机械参数 Mechanical parameter

摇动角度: $\pm 32^\circ$
Swing angle: ± 32
使用寿命: 大于100万次
Service life: Is bigger than 1,000,000 times
操作力: 15 (最大)
Operation strength: 15 (biggest)
限位力: 200N
Limit strength: 200N
重量: 125g
Weight: 125g

电气参数 Electrical parameter

总电阻值: $5K \Omega$
Total resistance value: $5K \Omega$
电气角度: $\pm 30^\circ$
Electric angle: $\pm 30^\circ$
中位电压 (相对电源电压): 48% ~ 52%
The median position voltage (relative to power supply voltage): 48%~52%
中位死区角度: $\pm 2.5^\circ$
The median position dead zone angle: $\pm 2.5^\circ$
电位器加载最大电压: DC32V
The potentiometer loads max voltage: DC32V
电位器允许最大功耗 (25℃): 0.25W
Potentiometer allows the maximum power consumption (25℃): 0.25W
方向开关: 负载能力: 10mA@30Vdc (阻性负载)
Direction switch: Load capacity: 10mA@30Vdc (resistive load)
起始角度: $\pm 3^\circ \sim \pm 5^\circ$
Outset angle: $\pm 3^\circ \sim \pm 5^\circ$

环境参数 Environment parameter

工作温度范围: $-20^\circ\text{C} \sim +70^\circ\text{C}$
Operating temperature scope: $-20^\circ\text{C} \sim +70^\circ\text{C}$
防护等级: IP65
Protection rank: IP65

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① ② ③ ④

分项选型说明Sub-item selection instructions

① 产品系列号Product series number

OM11, 5K Ω 带中心抽头电位器, 带 10mA 电流方向开关, 弹簧自动复位, 安装孔距尺寸44mm*44mm
OM11, 5K Ω with center-tapped potentiometer, with 10mA direction of current switch, the spring automatic reset, installment pitch of holes size 44mm*44mm

② 输出轴及操作方式Output axis and operating mode

1A=单轴

1A= single axis

2A= 双轴任意操作方向

The 2A= Double axis any direction operate

③ 输出信号Output signal

P051= 带5K Ω 中心抽头电位器0~100% 电压输出

P051= with 5K Ω center-tapped potentiometer 0~100% voltage output

U21=DC24V电源, -10V~0V~+10V 电压输出

U21=DC24V power source, -10V~0V~+10V voltage output

U22=DC24V电源, +10V~0V~+10V 电压输出

U22=DC24V power source, +10V~0V~+10V voltage output

U23=DC24V电源, -5V~0V~+5V 电压输出

U23=DC24V power source, -5V~0V~+5V voltage output

U24=DC24V电源, +5V~0V~+5V 电压输出

U24=DC24V power source, +5V~0V~+5V voltage output

I21= 二线制4mA ~12mA ~20mA 电流输出

I21= two-wire system 4mA ~12mA ~20mA electric current output

I22= 二线制20mA ~4mA ~20mA 电流输出

I22= two-wire system 20mA ~4mA ~20mA electric current output

PWM224=PWM 带放大板电流输出, 电源电压DC24V, 2路输出

The PWM224=PWM with scaling board current output, supply voltage DC24V, 2 road output

PWM424=PWM 带放大板电流输出, 电源电压DC24V, 4路输出

The PWM424=PWM with scaling board current output, supply voltage DC24V, 4 road output

PWM212=PWM 带放大板电流输出, 电源电压DC12V, 2路输出

The PWM212=PWM with scaling board current output, supply voltage DC12V, 2 road output

PWM412=PWM 带放大板电流输出, 电源电压DC12V, 4路输出

The PWM412=PWM with scaling board current output, supply voltage DC12V, 4 road output

④ 手柄上端Handle top port

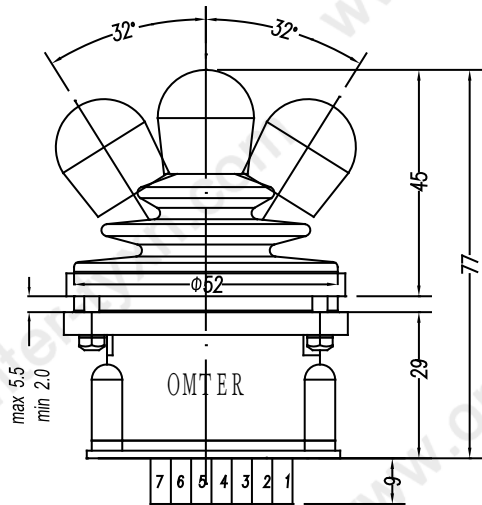
S=短柄, $\Phi 19 \times H20$, 无按钮

The S= short handle, $\Phi 19 \times h20$, without the button

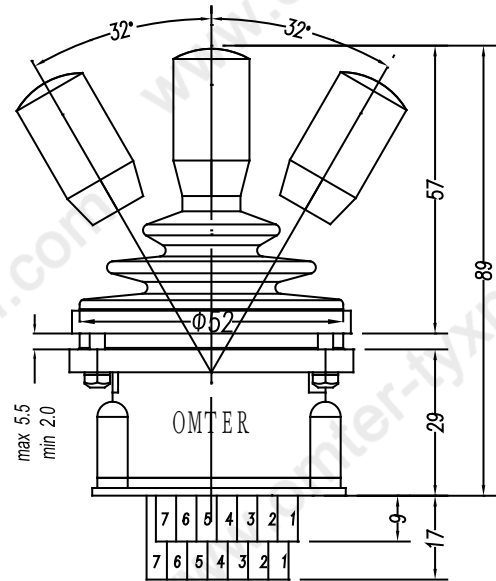
L=长柄, $\Phi 19 \times H45$, 无按钮

The L= long handle, $\Phi 19 \times h45$, without the button

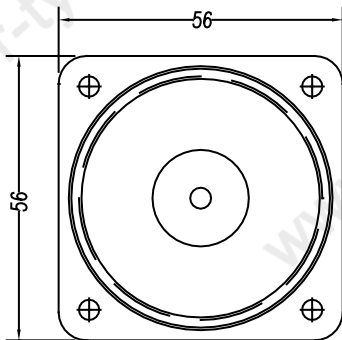
外形尺寸 External dimensions



上端为短柄 (S) The top port is short handle (S)

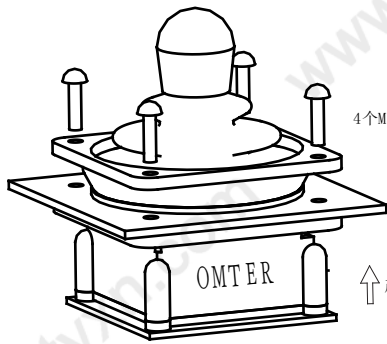


上端为长柄 (L) The top port is long handle (L)



俯视图 Vertical view

机械安装 Machinery installment

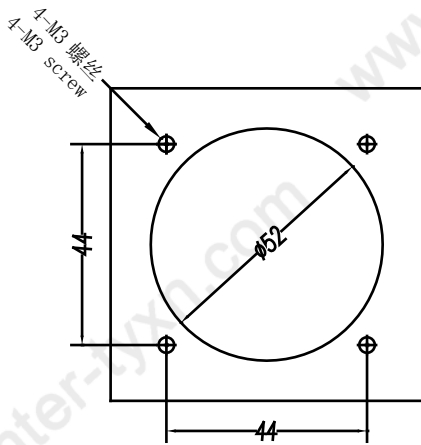


4个M3*10 螺丝 (4 pcs M3*10 screws)

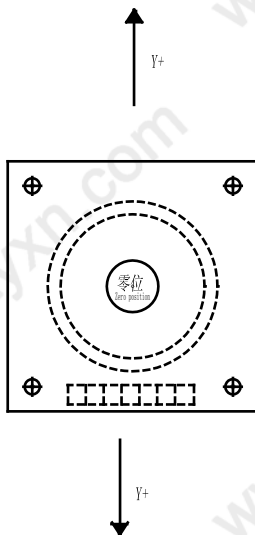
面板厚度2-5mm (Mounting panel thickness 2-5mm)

↑ 产品从面板下向上安装 (Product from mounting panel to the upward install)

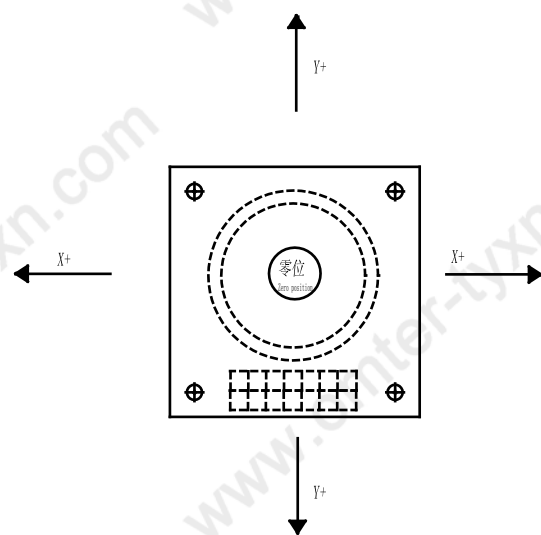
安装示意图 Installs the schematic drawing



安装面板开孔示意图 Mounting panel to the open hole schematic drawing



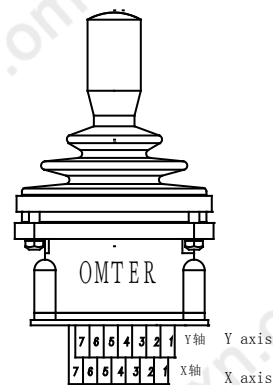
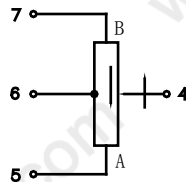
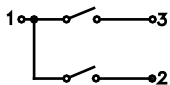
单轴操作方向定义 Single axis operation direction definition



双轴操作方向定义 Double axis operation direction definition

电气安装Electrical installment

接线端	功能
1	开关公共端
2	前开关
3	后开关
4	电位器滑动端
5	电位器A端
6	电位器中位
7	电位器B端



Terminal	Function
1	Switch public port
2	Front switch
3	Back switch
4	Potentiometer wiper port
5	Potentiometer A port
6	potentiometer intermediate position
7	Potentiometer B port