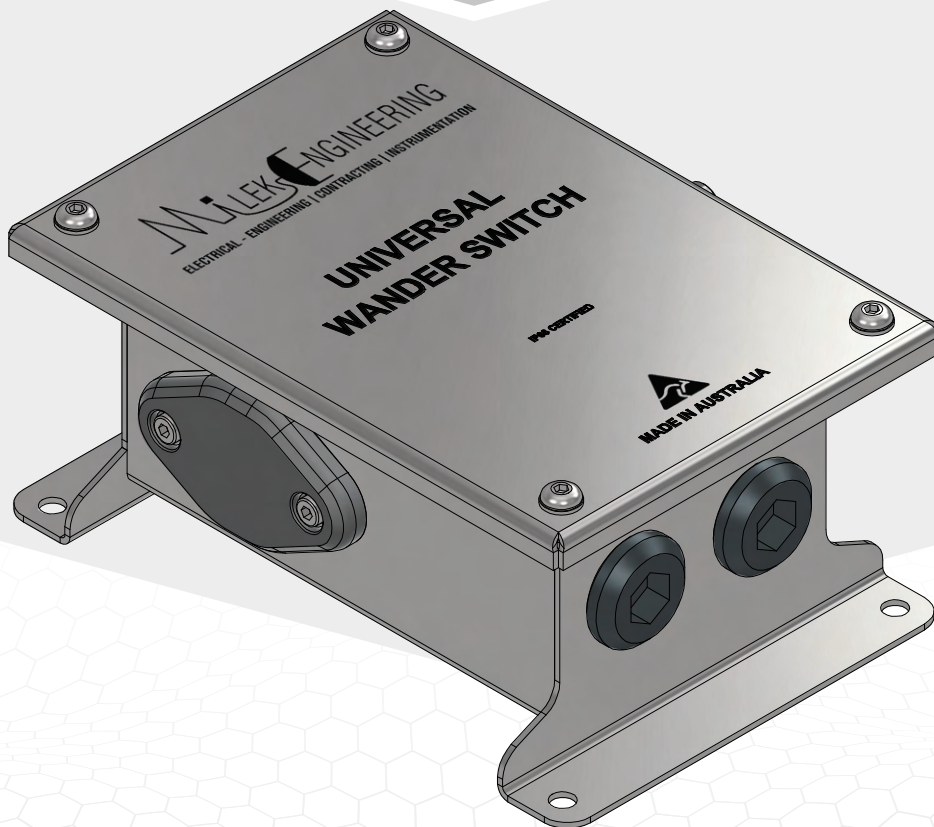


# UNIVERSAL WANDER SWITCH MANUAL



# MANUAL UNIVERSAL WANDER SWITCH

The Universal WANDER switch is utilised to provide Belt tracking detection as per the requirements of AS4024.3611 table 1, which imposes mandatory requirements for belt tracking at various location on conveyor systems.

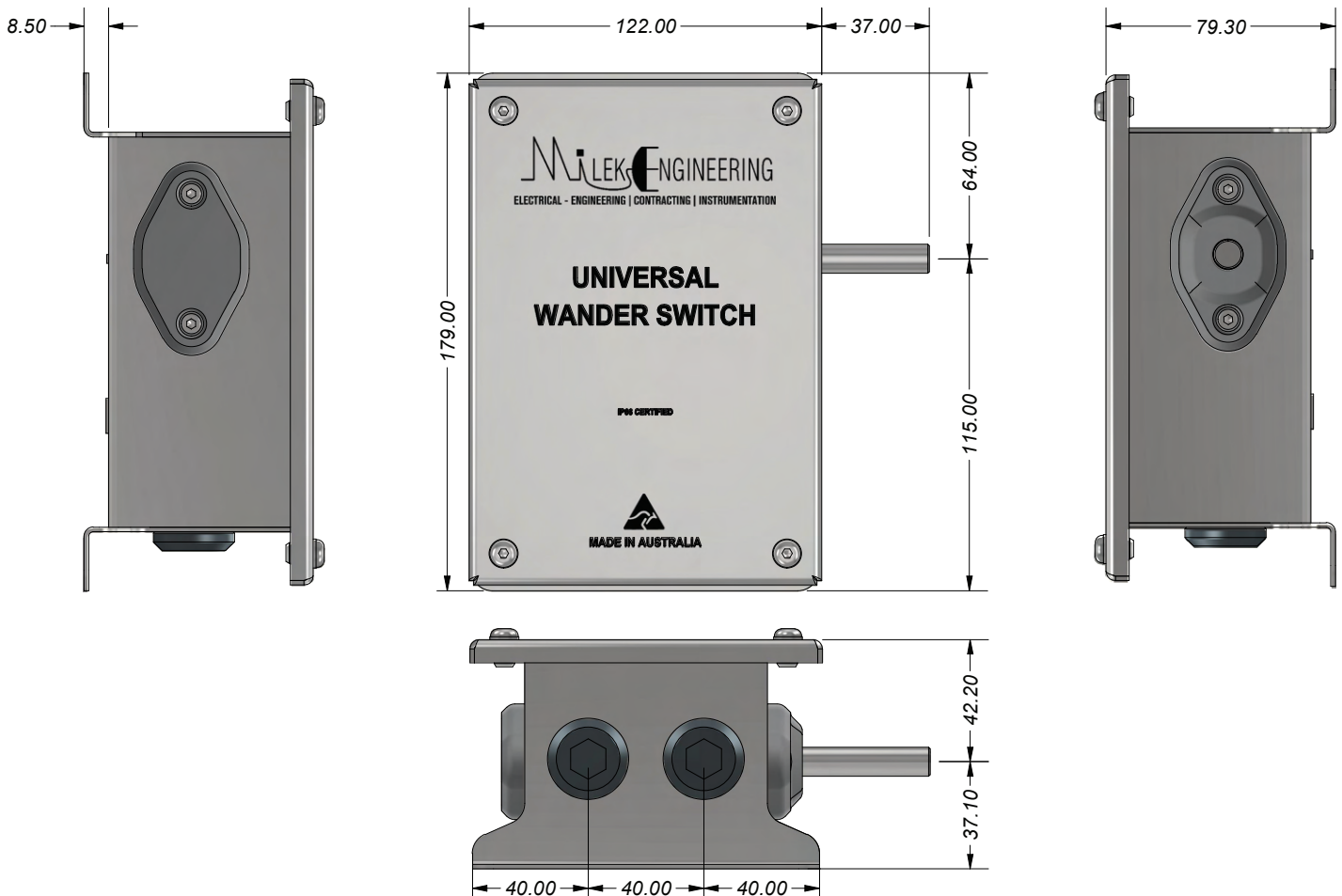
The Universal term refers to the ability for the switch to be easily changed from left hand to right hand activation. The switch will activate when the roller arm is rotated in either direction.

## KEY ADVANTAGES:

- Australian Design & Manufacture
- Robust SS316 IP66 construction
- Single spare requirement
- No mechanical switches to corrode
- More robust if suffers water ingress
- Dual switching as standard (CW/CCW)
- Classified as a simple switch device under AS60079



## DIMENSIONS:



# MANUAL UNIVERSAL WANDER SWITCH

## ADJUSTMENTS: Re-handing The switch

The Universal Wander switch has 2 Main adjustments, the location of the actuator RHS or LHS, and the rotation angle of the roller relative to the switch body.

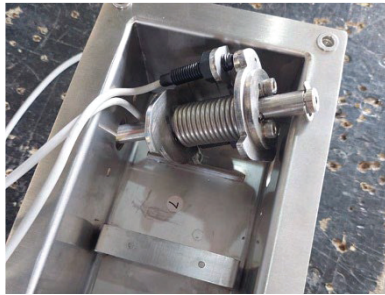
1. Remove the roller arm by loosening the clamping bolt.



2. Remove the 4 screws holding the end covers in place.

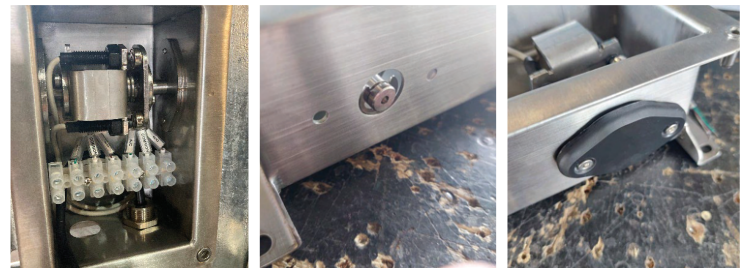


3. Slide the entire mechanism to the long side then remove from the enclosure.

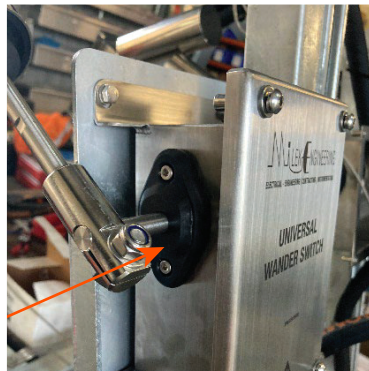


4. Rotate 180 degrees and re-insert the mechanism.

5. Ensure the circlip remains in position and is located in the hole in the sidewall of the enclosure. Place the internal plate and the blanked end cover in position and install and tighten the screws.

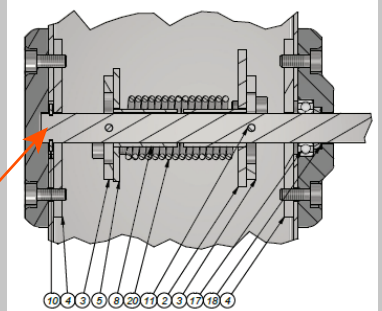


6. Insert the internal plate on the other and slide the open end cover onto the shaft.



Open End Cover

Circlip Location



7. Test the device rotates freely and device switches correctly.

# MANUAL UNIVERSAL WANDER SWITCH

## SPECIFICATIONS:

### ENCLOSURE

STAINLESS STEEL 1.5MM G316

IP66 CERTIFIED

### SWITCHING DEVICE

<b>RATED POWER (MAX.)</b> MAXIMUM DC COMBINATION OF V&A NOT TO EXCEED THEIR INDIVIDUAL MAX'S	<b>100</b>	<b>W</b>
<b>SWITCHING VOLTAGE (MAX.)</b> DC OR PEAK AC	<b>1000</b>	<b>V</b>
<b>SWITCHING CURRENT (MAX.)</b> DC OR PEAK AC	<b>1</b>	<b>A</b>
<b>CARRY CURRENT (MAX.)</b> DC OR PEAK AC	<b>2.5</b>	<b>A</b>
<b>CONTACT RESISTANCE (MAX.)</b> @ 0.5V & 50MA	<b>150</b>	<b>mOhm</b>
<b>BREAKDOWN VOLTAGE (MIN.)</b> ACCORDING TO EN60255-5	<b>1.5</b>	<b>kVDC</b>
<b>OPERATING TIME (MAX.)</b> INCL. BOUNCE; MEASURED WITH W/ NOMINAL VOLTAGE	<b>1.1</b>	<b>ms</b>
<b>RELEASE TIME (MAX.)</b> MEASURED WITH NO COIL EXCITATION	<b>0.05</b>	<b>ms</b>
<b>INSULATION RESISTANCE (TYP.)</b> RH<45%, 100V TEST VOLTAGE	<b>10<sup>10</sup></b>	<b>Ohm</b>
<b>SHOCK RESISTANCE (MAX.)</b> 1/2 SINE WAVE DURATION 11MS	<b>50</b>	<b>g</b>
<b>VIBRATION RESISTANCE (MAX.)</b>	<b>20</b>	<b>g</b>
<b>OPERATING TEMPERATURE</b> CABLE NOT MOVED	<b>-30 to 70</b>	<b>°C</b>
<b>OPERATING TEMPERATURE</b> CABLE MOVED	<b>-5 to 70</b>	<b>°C</b>
<b>STORAGE TEMPERATURE</b>	<b>-30 to 70</b>	<b>°C</b>
<b>MEAN TIME TO FAILURE</b>	<b>&gt;1,000,000</b>	<b>OPERATIONS</b>

# MANUAL UNIVERSAL WANDER SWITCH

## CONNECTIONS:

The reed switch configuration is a single pole double throw changeover switch.

The 2 switches may be used as required, i.e in series, in parallel, separate devices.

COLOUR	FUNCTION
WHITE	Common
GREEN	N/O
BROWN	N/C

Note: The above table is the state when out of range to the magnet.  
When the wander is in it's unswitched (home) position the reed switch is activated.

## SPARE PARTS:

PART NUMBER	DESCRIPTION	PHOTO
WSA01	Wander Switch Roller Arm - 150mm	No Image Available
RS05	Reed Switch	