

UNIVERSAL WANDER SWITCH

UWS01



PRODUCT OVERVIEW

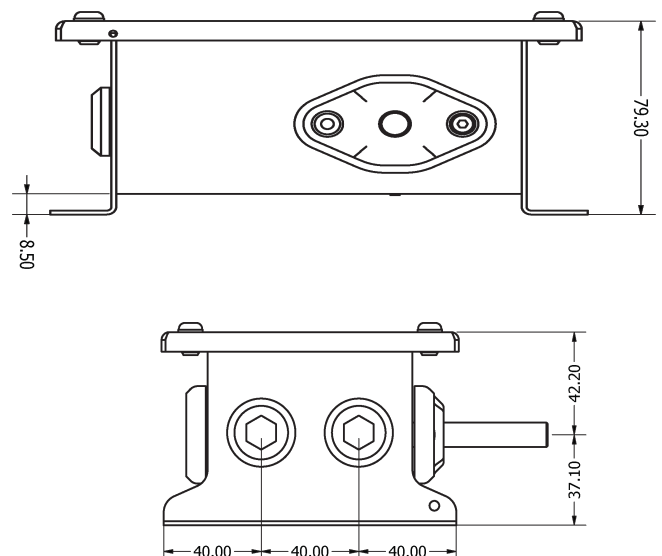
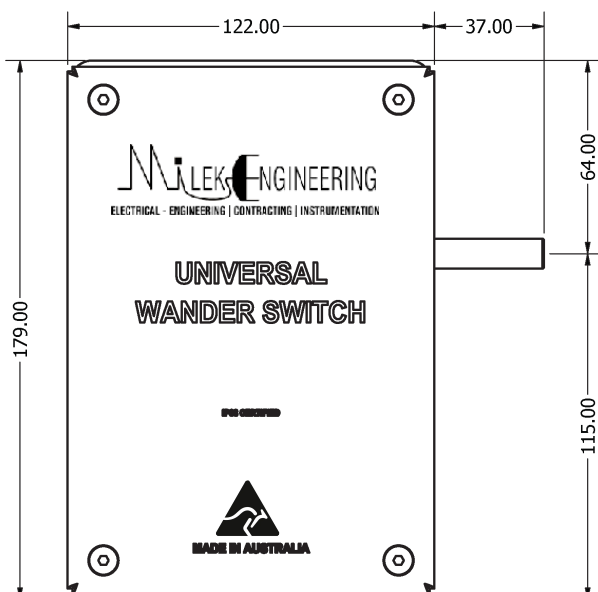
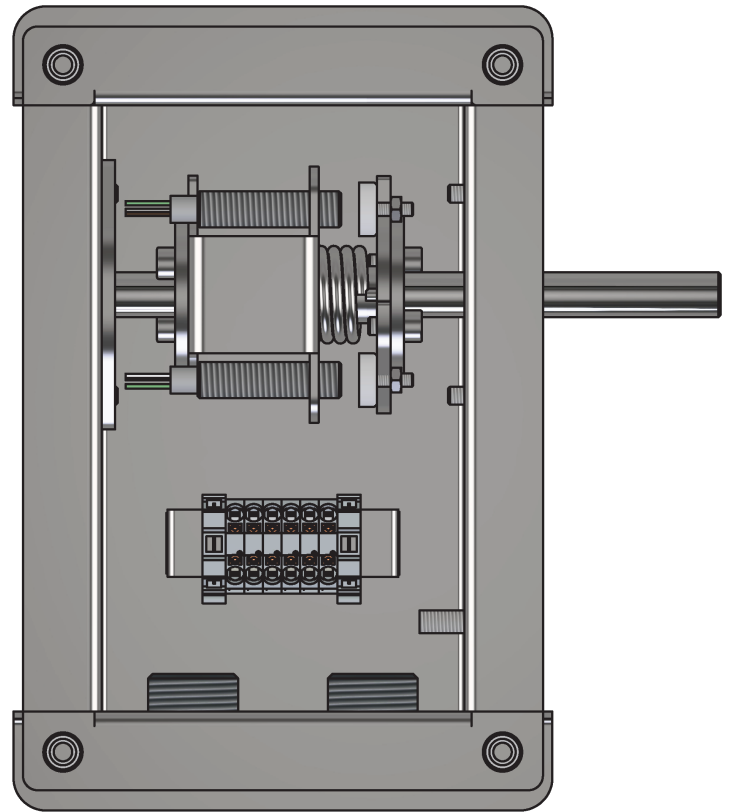
PRODUCT INFORMATION

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; clockwise or anticlockwise.

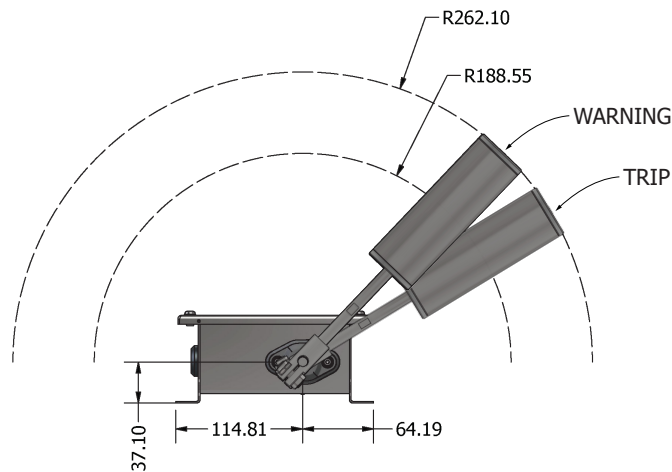
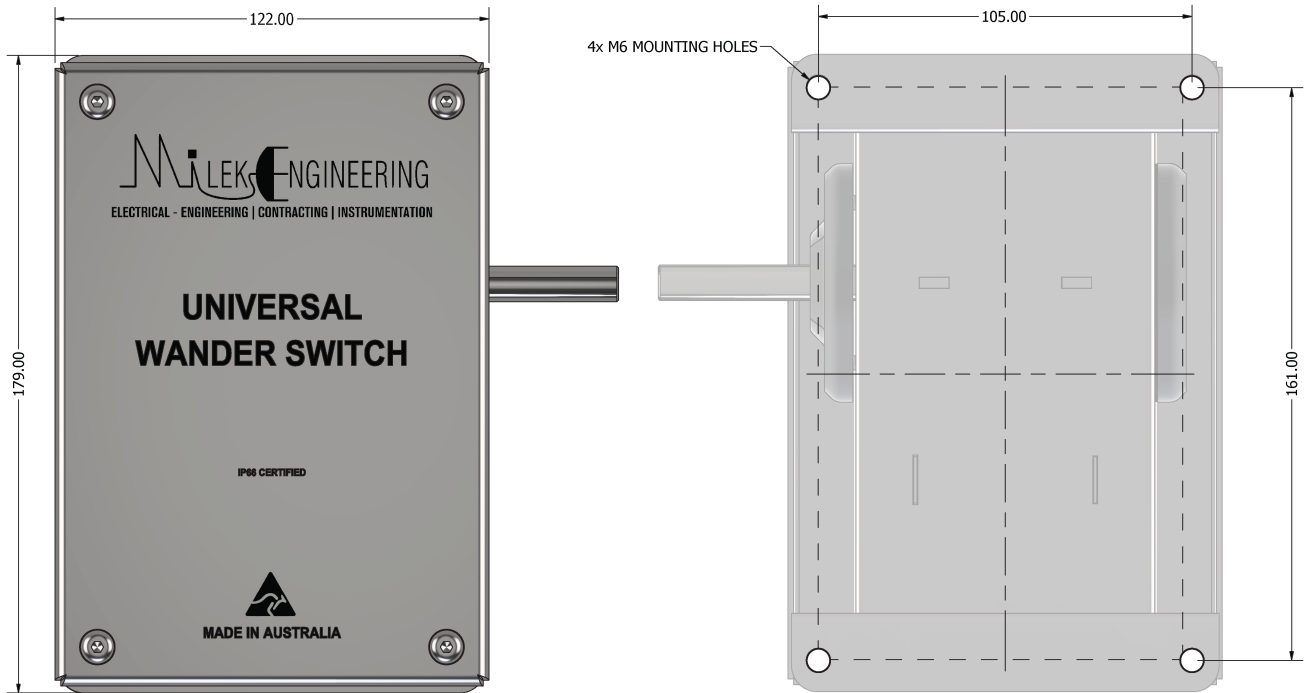
KEY ADVANTAGES

- Australian design & manufacture
- Robust G316 stainless steel enclosure.
- IP66 construction providing robust ingress protection.
- Single spare requirement
- No mechanical switches to corrode
- More robust if water ingress or prolonged sun exposure occurs
- Dual switching as standard (CW/CCW)
- Warning switch at 15° and trip at 20°.
- Classified as a simple switch device under AS60079



PRODUCT OVERVIEW

MOUNTING INFORMATION

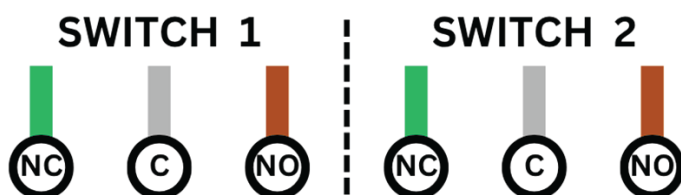


NOTE: SWITCH ARM REQUIRES A MINIMUM OF 15° OF ROTATION TO ACTIVATE.

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 or separate devices).

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



ADJUSTMENTS

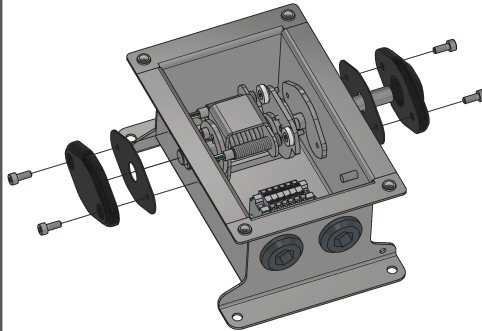
RE-HANDING ROLLER ARM

01



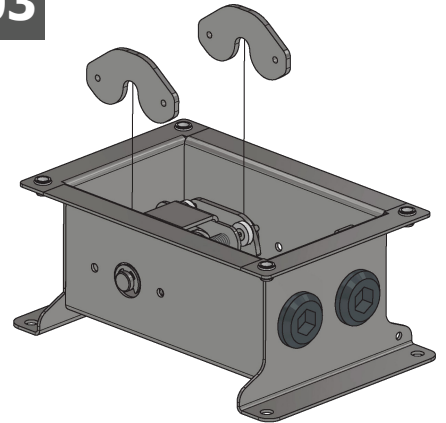
REMOVE THE ROLLER ARM BY LOOSENING THE CLAMPING BOLT AND SLIDING THE ROLLER ARM OFF, ALONG THE SHAFT.

02



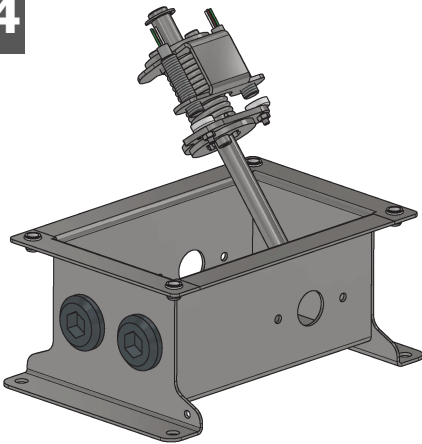
REMOVE THE 4 SCREWS HOLDING END COVERS IN PLACE AND REMOVE END COVERS & GASKETS.

03



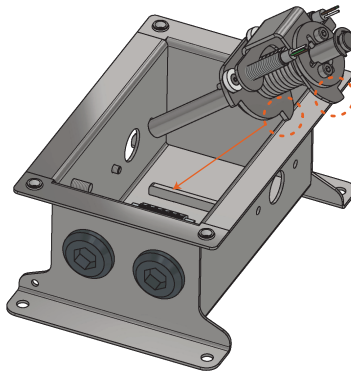
REMOVE THE INTERNAL PLATES FROM ENCLOSURE.

04



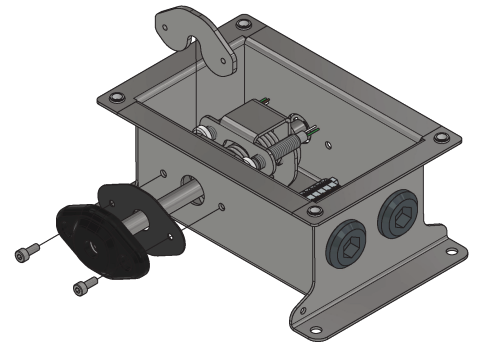
SLIDE INTERNAL MECHANISM TOWARDS THE LONG SIDE OF THE SHAFT AND REMOVE FROM ENCLOSURE.

05



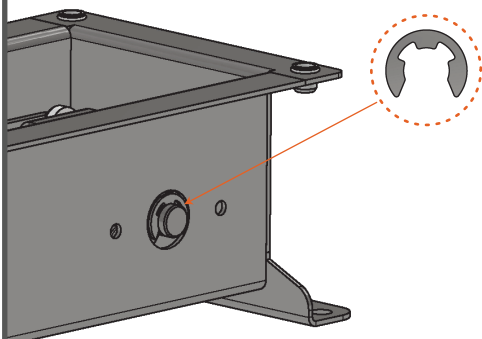
ROTATE 180° SO THAT THE SHAFT IS POINTED IN THE OPPOSITE DIRECTION. REINSERT, ALIGNING NOTCHES ON MECHANISM WITH STOP BAR.

06



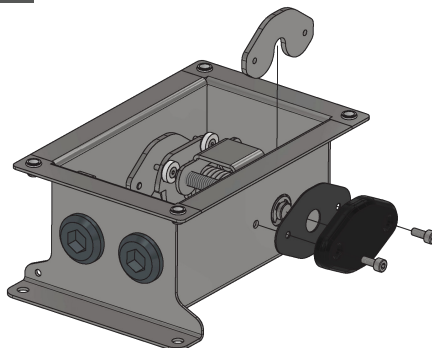
REPLACE BEARING COVER AND GASKET ON SHAFT. REPLACE INTERNAL PLATE & FASTENERS TO SECURE.

07



ENSURE CIRCLIP REMAINS IN POSITION ON SHAFT AND IS LOCATED IN THE HOLE IN THE SIDE WALL.

08



REPLACE BLANK COVER AND GASKET ON OPPOSITE SIDE. REPLACE INTERNAL PLATE & FASTENERS TO SECURE.

09



REATTACH ROLLER ARM TO SHAFT & TIGHTEN CLAMPING BOLT. REPLACE ENCLOSURE LID & SECURE.

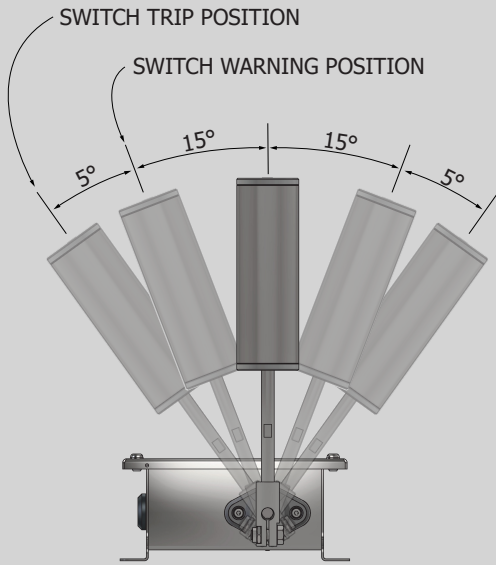
07

TEST THE DEVICE ROTATES FREELY AND DEVICE SWITCHES CORRECTLY

ADJUSTMENTS

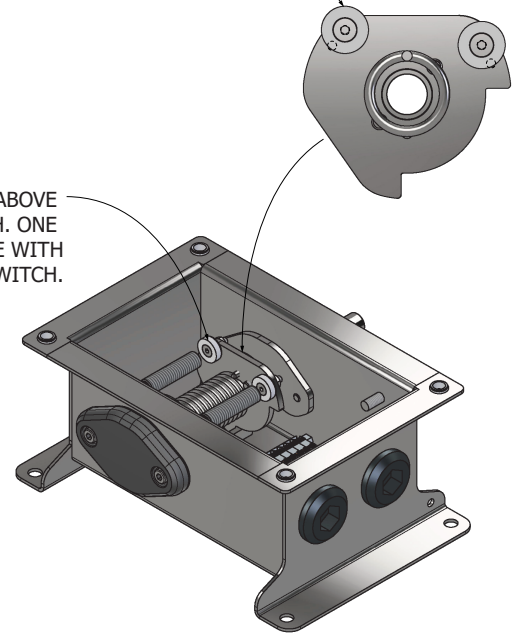
MAGNET REPOSITIONING

WARNING & TRIP SWITCHING

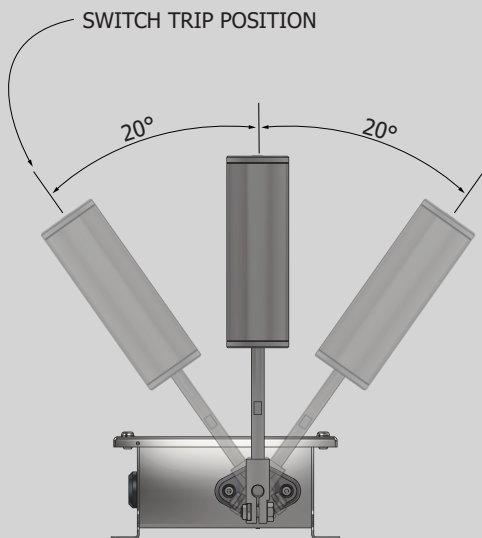


FACTORY SET MAGNET POSITION THROUGH TOP ADJUSTMENT HOLE.

ONE MAGNET IS POSITIONED ABOVE CORRESPONDING REED SWITCH. ONE MAGNET IS POSITIONED IN LINE WITH CORRESPONDING REED SWITCH.

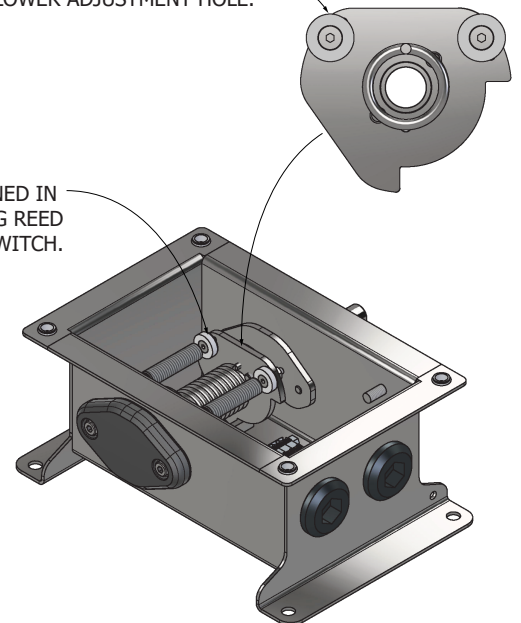


WARNING & TRIP SWITCHING



ADJUSTED MAGNET POSITION THROUGH LOWER ADJUSTMENT HOLE.

BOTH MAGNETS ARE POSITIONED IN LINE WITH CORRESPONDING REED SWITCH.



TECHNICAL SPECIFICATIONS

ENCLOSURE SPECIFICATIONS

1.5mm G316 STAINLESS STEEL
IP66 CERTIFIED

SWITCHING DEVICE SPECIFICATIONS

RATED POWER (MAX) ANY DC COMBINATION OF V&A NOT TO EXCEED THEIR INDIVIDUAL MAX'S	10W
SWITCHING VOLTAGE (MAX) DC OR PEAK AC	175V
SWITCHING CURRENT (MAX) DC OR PEAK AC	0.5A
CARRY CURRENT (MAX) DC OR PEAK AC	1.0A
CONSTANT RESISTANCE (MAX) @ 0.5V & 50mA	150mΩ
BREAKDOWN VOLTAGE (MIN) ACCORDING TO EN60255-5	0.2kVDC
OPERATING TIME (MAX) INCL. BOUNCE; MEASURE W/ NOMINAL VOLTAGE	0.7ms
RELEASE TIME (MAX) MEASURED WITH NO COIL EXCITATION	1.5ms
INSULATION RESISTANCE (TYP) RH<45%, 100V TEST VOLTAGE	10GΩ
SHOCK RESISTANCE (MAX) 1/2 SINE WAVE DURATION	50g
VIBRATION RESISTANCE (MAX)	20g
OPERATING TEMPERATURE CABLE NOT MOVED	-30 to 70°C
OPERATING TEMPERATURE CABLE MOVED	-5 to 70°C
STORAGE TEMPERATURE	-30 to 70°C
MEAN TIME TO FAILURE NUMBER OF OPERATIONS	>1 000 000

SPARE PARTS

WANDER SWITCH ROLLER ARM (SHORT)	WSA02
WANDER SWITCH ROLLER ARM (LONG)	WSA03
REED SWITCH	RS03