

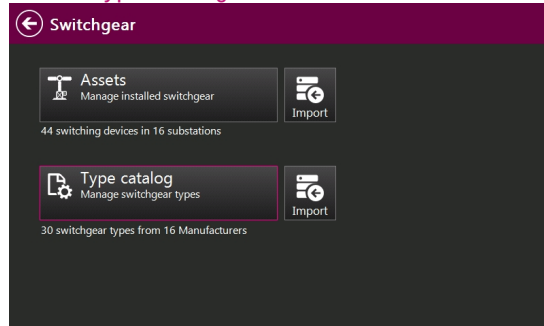
ACTAS Px60 Quick Start Guide Travel Transducer Setup

1. Power on the ACTAS Px60.

-Select **"Switchgear"** tile on the touch screen



2. Select **"Type catalog."**

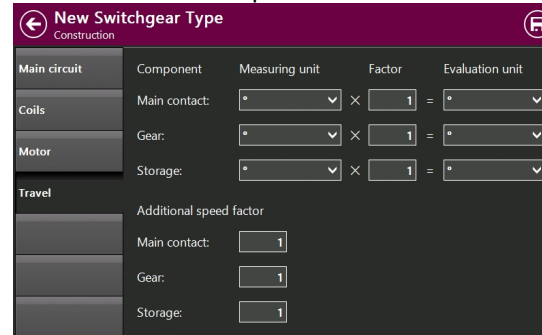


3. Select an existing template to open from the list or click **"+"** button to create new.



4. Select **"Construction"** tab.

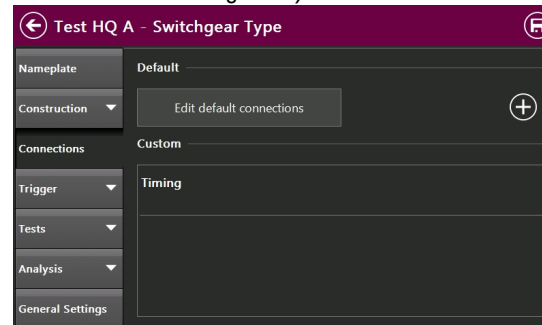
-Select **"Travel"** tab and set the transducer conversion factor if needed. Use **"main contact"** factor. An additional speed factor can also be set.



-Regardless of if a conversion factor is used, if a linear transducer is used change the default of **degrees to mm** in both the measuring unit and evaluation unit.

-Press back arrow at top left.

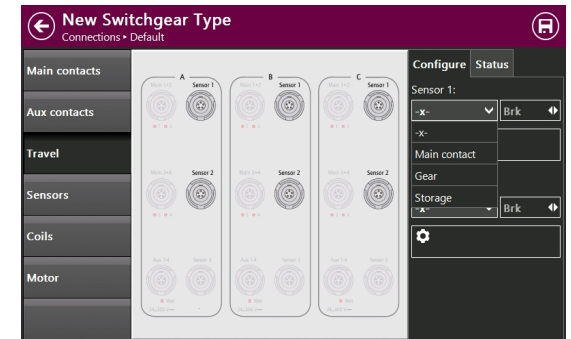
5. Select **"Connections"** tab and **"edit default connections"** (or select timing under custom connections if configured.)



-Select the **"Travel"** tab.

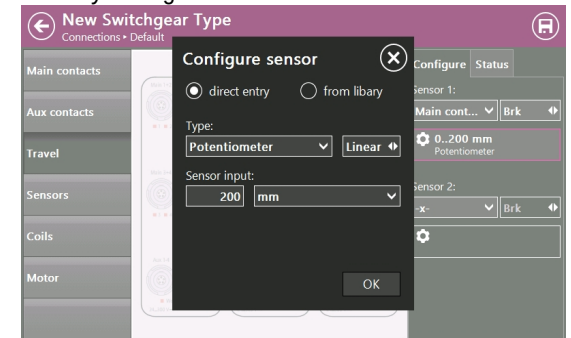
-Select the drop down under **"sensor 1"** and select **"main contact."**

-Select **"Brk"** if using one transducer or **"3-Ph"** if using 3 transducers, 1 on each phase.



-Select the **"gear symbol"** under the sensor 1 drop down to set transducer type.

-Select a pre-configured sensor from the library or directly configure a transducer here.



-For a linear transducer set the **"sensor input"** to the total length of the motion rod. For rotary; the total rotational motion i.e. 360°

-Select **"OK"** then, press back arrow at top left.

6. Select the **"Analysis"** tab.

-Select **"Main contacts"** tab.

-Select **"Close speed"** and set the two reference points where closing velocity should be calculated on the travel curve.

ACTAS Px60 Quick Start Guide Travel Transducer Setup

Test HQ A - Switchgear Type
Main contacts

General

First point
Reference method: **Contact make** at:

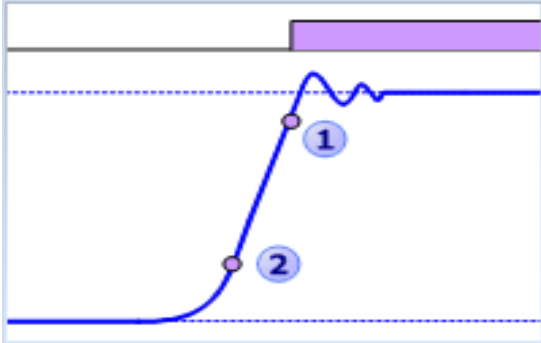
Close speed

Open speed
Additional offset: **ms**

Dyn. Timing

Damping
Reference method: **Contact make** at:

Additional offset: **ms**



-The reference points can be set based off multiple methods available in the drop down menu.

Test HQ A - Switchgear Type
Main contacts

General

First point
Reference method: **Contact make** at:

Close speed

Open speed
Contact make
Stroke [absolute]

Dyn. Timing
Stroke [relative]

Damping
Time from initiation at:

Additional offset: **ms**

-Stroke [absolute] is a direct mm or ° position where as [relative] is a % of stroke.

-Select "Open speed" to set the reference points for tripping velocity.

Test HQ A - Switchgear Type
Main contacts

General

First point
Reference method: **Contact break** at:

Close speed

Open speed
Additional offset: **ms**

Dyn. Timing

Damping
Reference method: **Contact break** at:

Additional offset: **ms**



7. Damping analysis can also be configured.

Test HQ A - Switchgear Type
Main contacts

General

☐ Calculate damping results

Close speed
Calculation method: **Change of velocity**

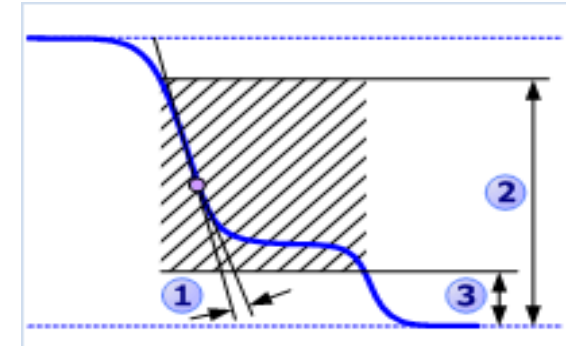
Open speed
Start of damping at: %

Dyn. Timing
Evaluation window start: **mm**

Damping
Evaluation window end: **mm**

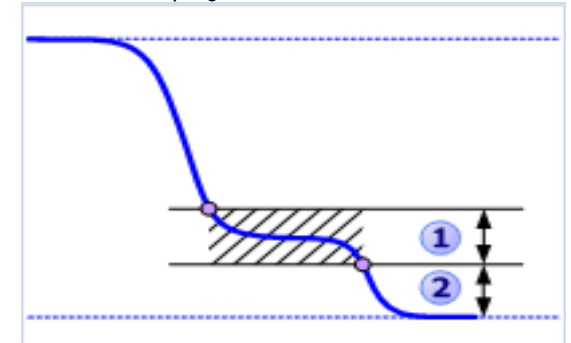
-Damping can be calculated by "change of velocity" with analysis points are defined as:

- 1: Start of damping.
- 2: Evaluation window start.
- 3: Evaluation window end.



-Alternatively Damping can be calculated from saddle height with analysis points defined as:

- 1: Start of damping.
- 2: End of damping.



Test HQ A - Switchgear Type
Main contacts

General

☒ Calculate damping results

Close speed
Calculation method: **Saddle height**

Open speed
Start of damping at: **mm**

Dyn. Timing
End of damping at: **mm**

Damping

-Press "save icon" to apply transducer changes to template.