Tuya Blind

Overview

This driver represents one Tuya blind or curtain in Control4, with position and open/close/stop control. It requires the **Tuya** gateway. Bind this driver's **Tuya Blind** connection to the matching `TUYA_BLIND` connection on the gateway. **Auto Setup** can add and bind instances automatically.

See the **Tuya** documentation for account sign-in and gateway setup.

Properties

Property	Description
Cloud Status	DriverCentral license status (read-only)
Automatic Updates	Allow automatic driver updates when available
Driver Version	Packaged driver version (read-only)
Log Level	Logging verbosity; resets to Off after about 1 hour when not Off
Auto Rename Driver	When On (default), renames the driver in Composer to the Tuya device name
Device ID	Tuya device identifier, set by the gateway (read-only)
Device Name	Device name from Tuya, set by the gateway (read-only)
Motor Direction	Normal (default) or Inverted; see below
Closed Deadband	Percent reported as fully closed (default 0); see below
Open Deadband	Percent reported as fully open (default 0); see below

Motor Direction

Some Tuya blinds and curtains use the opposite level convention: 0% = open and 100% = closed, while Control4 uses 0% = closed and 100% = open. If the up and down buttons move the blind the wrong way, set **Motor Direction** to **Inverted**.

- **Normal** (default): 0% = closed, 100% = open. Use for devices that match the Tuya app's up and down behavior.
- **Inverted**: for devices where 0% = open and 100% = closed. Corrects both the up and down buttons and the reported position so they match the Tuya app.

Closed Deadband and Open Deadband

Percent within which the blind is reported to Control4 as fully closed or fully open. Both default to **0**, which reports the position exactly as the device sends it.

Some motors stop a few percent short of their travel limits. A blind that is physically closed may report 3%, for example. Control4 treats a blind that is open by any amount as open, so this causes two symptoms:

- Navigator shows the partially open icon even though the blind is fully closed or fully open.
- A toggle button only closes the blind and never opens it, because Control4 keeps seeing it as slightly open.

Raise the matching deadband until the blind reports 0% when fully closed and 100% when fully open. The two ends are set separately because motors often stop short by different amounts in each direction.

1. Fully close the blind. If Control4 still shows it as partly open, raise **Closed Deadband** a few percent at a time until Control4 shows it as closed.
2. Fully open the blind. If Control4 still shows it as partly open, raise **Open Deadband** the same way until Control4 shows it as fully open.

Changes take effect immediately, so you can adjust the values while watching the blind's status in Control4. Keep the values as low as they can be while still reaching fully closed and fully open, since any position inside the deadband is reported as fully closed or fully open.

Bindings

Connection	Class	Notes
Tuya Blind	`TUYA_BLIND`	Bind to the matching connection on the Tuya gateway
Blind	`BLIND`	Control4 blind connection

Support

If you have questions or issues with this driver, contact us at support@solidified.co or call/text +1 (561) 444-9960. You can also submit a support ticket at DriverCentral.

Changelog

v20261116 - 2026-11-16

Fixed

- Fixed Auto Setup failing with an error and not adding subdrivers.

v20261107 - 2026-11-07

Fixed

- Fixed Blind open/close (up/down) for curtain switches that only support open, stop, and close without position reporting.

v20261021 - 2026-10-21

Added

- Added Thermostat Temperature and Humidity connections for external sensors.
- Added Thermostat Switch Mode property for on/off-only devices.

v20261007 - 2026-10-07

Added

- Added Fan support (1–6 speed variants, optional reverse).

v20260927 - 2026-09-27

Added

- Added Switch support for breaker / switchable outlet devices.
- Added Switch support for multi-gang touch panel switches.

Fixed

- Fixed Blind position feedback not updating correctly for some devices.
- Fixed Thermostat ambient temperature showing incorrectly on some devices.

Changed

- Changed Auto Setup to use the light subdriver for switch devices.
- Changed blinds so Control4 shows them as moving while they travel.

v20260909 - 2026-09-09

Fixed

- Fixed MQTT TLS certificate verification failure against EU brokers.

v20260907 - 2026-09-07

Fixed

- Fixed Switch multi-gang switches where every channel commanded the first load.

Changed

- Changed Print Discovered Devices to include functions and status.

v20260904 - 2026-09-04

Fixed

- Fixed MQTT failing to connect when the driver .c4z is renamed.

v20260828 - 2026-08-28

Added

- Added Blind Closed Deadband and Open Deadband properties for motors that stop short of their travel limits and report a fully closed or fully open blind as partially open.

Changed

- Improved cloud connection recovery after network or power interruptions.

v20260706 - 2026-07-06

Added

- Added Thermostat Print Diagnostics action.

Fixed

- Fixed Auto Rename Driver aggressively resetting device names in Composer.
- Fixed a race condition that could cause devices to lose configuration after controller reboot.
- Fixed Thermostat ambient temperature reading on certain devices.

v20260623 - 2026-06-23

Fixed

- Fixed Sensor human presence sensors not reporting motion to contact bindings.

v20260519 - 2026-05-19

Added

- Added Thermostat Setpoint Unit setting for certain devices where setpoints will not change correctly from Control4.

Changed

- Improved performance and fixed miscellaneous bugs.
- Improved authentication refresh resilience for edge-case expiration timing.

v20260401 - 2026-04-01

Fixed

- Fixed certain thermostat devices not reporting current temperature.

v20260331 - 2026-03-31

Added

- Added Tuya Blind (Tilt) driver for blinds with tilt functionality.

Fixed

- Fixed some blinds not fully opening or closing.
- Fixed keypad LEDs not reflecting the current light device state.

Changed

- Renamed Device Count property to Discovered Devices and included more information.

v20260310 - 2026-03-10

Added

- Added Motor Direction property to the blind driver.

v20260302 - 2026-03-02

Added

- Added Blind driver for blinds, curtain, and shade devices.

v20260301 - 2026-03-01

Added

- Added Thermostat driver for HVAC, heaters, and mini-split devices.

v20260213 - 2026-02-13

Added

- Added Scene support through programming on the core driver.

v20260212 - 2026-02-12

Added

- Added Auto Setup action for quick setup.
- Added Print Discovered Devices action to print a full list of known devices to the Lua output.

v20260210 - 2026-02-10

Added

- Added support for Daylight Agent.
- Added a property to auto-rename the driver to match the Tuya/Smart Life app.

v20260131 - 2026-01-31

Changed

- Improved performance for light and switch devices.

v20260128 - 2026-01-28

Fixed

- Fixed support for load group drivers.
- Fixed rounding issue for brightness and color temperature.

v20260123 - 2026-01-23

Added

- Added support for Control4 switch and dimmer load group drivers.

Fixed

- Fixed light driver button actions.

Changed

- Improved dynamic capability detection for switch and light devices.

v20260111 - 2026-01-11

Changed

- Improved compatibility for a broader range of dimmer switches.

v20260106 - 2026-01-06

Fixed

- Fixed compatibility for light devices with non-standard value ranges.

v20251209 - 2025-12-09

Fixed

- Fixed light driver capabilities so they work properly in advanced lighting scenes.

v20251124 - 2025-11-24

Added

- Added configurable brightness control mode for RGB lights to improve compatibility with different device types.
- Added support for motion sensors (PIR), contact sensors, and human presence sensors.

v20251123 - 2025-11-23

Fixed

- Fixed status update processing.

Changed

- Improved performance for light, sensor, and switch devices.
- Improved capability detection for sensor and switch devices.

v20251121 - 2025-11-21

Fixed

- Fixed device state refresh when rebinding subdrivers (correctly identifies devices by binding ID).

Changed

- Improved RGB/color capability detection for lights by querying device functions during refresh.

v20251117 - 2025-11-17

Added

- Initial release.