



RETAIL EDITION – TradingView Indicator

# Smart Support & Resistance

User Guide & Feature Reference

Covers: Quick Start · Feature Deep Dive · Best Practices · Alerts · Troubleshooting



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## 1.1 What Is TrenVantage RETAIL?

TrenVantage RETAIL – Smart Support and Resistance is a precision-built TradingView indicator designed to automatically identify the most relevant support and resistance zones on your chart. Rather than flooding your view with dozens of lines, it surfaces only the most meaningful levels — up to three support zones and three resistance zones — keeping your chart clean and actionable.

Alongside the S/R engine, the indicator includes a dynamic ZigZag trend-detection layer, an optional SMA overlay, a live Status Box dashboard, and a built-in alert system. Together, these components give you a complete picture of market structure, directional bias, and proximity to key levels — all in a single, lightweight tool.

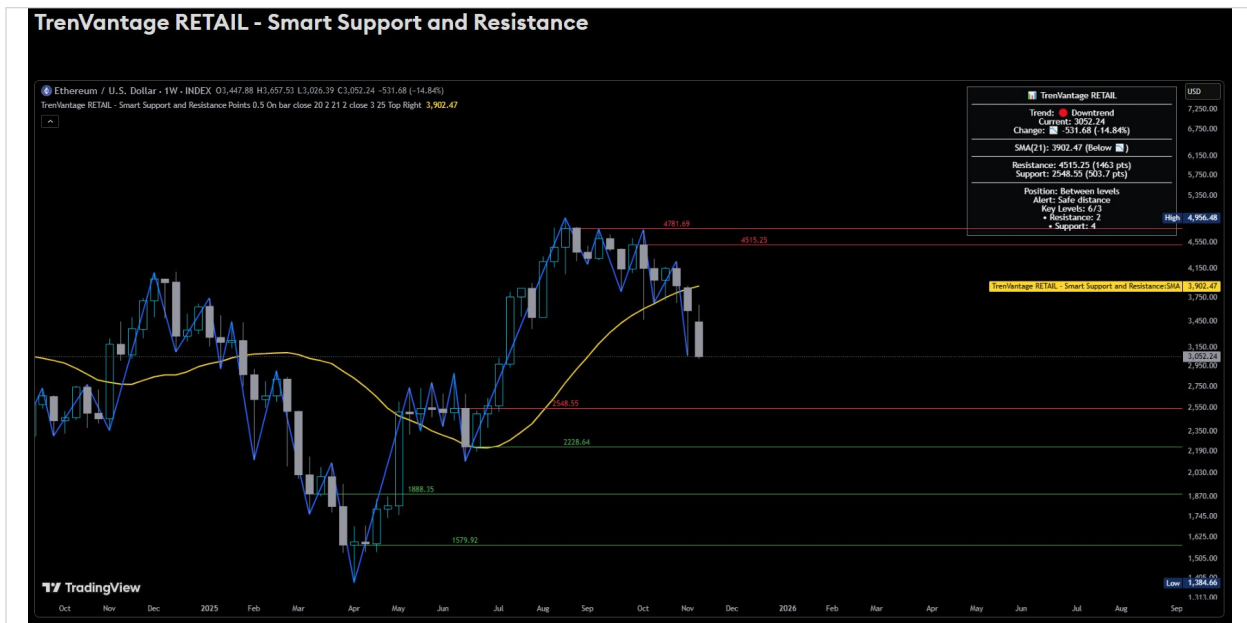


Fig. 1 — Full indicator view: S/R levels (red/green), ZigZag trend line (blue), SMA (yellow), and Status Box HUD.

### Who Is This Indicator For?

TrenVantage RETAIL is designed for traders of any experience level who want clear, uncluttered chart analysis. It works across all markets (crypto, forex, equities, futures) and all timeframes — from intraday scalping to weekly swing analysis.

## 1.2 Adding the Indicator to Your Chart

TrenVantage RETAIL is an invite-only script. Follow these steps to get started:

<b>Step 1 – Access</b>	Ensure you have been granted access to the script via your TradingView account. You should receive a notification from TrenVantage once access is added.
<b>Step 2 – Open TradingView</b>	Navigate to TradingView.com and open a chart for any symbol and timeframe you want to analyze.
<b>Step 3 – Open Indicators</b>	Click the Indicators button at the top of the chart toolbar (or press the / shortcut key).
<b>Step 4 – Search</b>	In the search bar, type TrenVantage RETAIL. The indicator will appear under Invite-Only Scripts in your results.
<b>Step 5 – Add to Chart</b>	Click the indicator name to add it to your chart. It will appear immediately as an overlay.
<b>Step 6 – Configure</b>	Click the Settings icon (gear wheel) next to the indicator name on your chart to open the settings panel and customize the indicator to your preferences.

### Don't See the Indicator?

If TrenVantage RETAIL doesn't appear in your search, your TradingView account may not yet have been granted access. Reach out via Discord or email (see Part 5) and provide your TradingView username to request access.

## 1.3 First Look: Reading the Chart

Once the indicator is on your chart, here is a quick overview of what you are seeing:

- **Red Horizontal Lines** Resistance levels — price zones where selling pressure has historically emerged. Price may struggle to break above these.
- **Green Horizontal Lines** Support levels — price zones where buying interest has historically emerged. Price may find a floor near these.
- **Blue ZigZag Line** The trend structure line. It connects swing highs and lows to visually show whether the market is trending up, down, or oscillating.
- **Yellow Curve (SMA)** The Simple Moving Average overlay. It shows the medium-term directional trend of price. Defaults to a 21-period SMA.
- **Status Box (HUD)** The on-chart dashboard in the corner. It displays current trend state, price, SMA context, nearest S/R levels, and proximity alert status at a glance.
- **Price Labels** Small numeric labels floating next to each S/R line, showing the exact price of that level.

### Understanding Level Colors

The color of each line tells you its current role. When Polarity Flip is enabled (the default), these colors update dynamically as price interacts with levels:

Setting	Default	Description
Red Line	Active Resistance	Price is currently below this level — it acts as a ceiling.
Green Line	Active Support	Price is currently above this level — it acts as a floor.
Red → Turns Green	Polarity Flip (Breakout)	A former resistance level has been broken and now acts as support.
Green → Turns Red	Polarity Flip (Breakdown)	A former support level has been broken and now acts as resistance.

## 1.4 Troubleshooting Common Issues

### No S/R lines appearing on the chart

The indicator requires enough historical price data to calculate pivot points. Try zooming out to include more bars. Also confirm that 'Show S/R Levels' is enabled in settings. On very new symbols or extremely short timeframes, there may not be enough structure yet.

### Lines disappear or jump around

S/R lines are calculated dynamically based on recent price action. This is expected behavior — the indicator continuously updates to keep only the most relevant levels visible. If levels are updating mid-bar, try switching the S/R Flip Calculation setting to 'On Bar Close' for more stable output.

### ZigZag line is missing

Ensure 'Show S/R Levels' is active and the Deviation Value is not set too high. A very high deviation value may prevent swings from being detected. The default of 0.5 Points works well for most assets.

### Status Box is not visible

Open settings and ensure 'Show Status Box' is toggled on under the Status Box UI section. Also check the Position setting — it may be off-screen if set to a corner that is obstructed by other chart elements.

### Alerts are not firing

Ensure 'Enable Proximity Alerts' is toggled on in the Alert Settings section. Also verify you have set up the alert through TradingView's own alert menu (click the clock icon on the chart toolbar), selected 'TrenVantage RETAIL' as the condition, and chosen your desired alert trigger.

### Indicator shows 'N/A' for Resistance or Support in the HUD

This means not enough pivot structure has formed on the visible chart yet to populate levels on one or both sides. Zoom out slightly to provide more historical data for the algorithm to work with.

### The indicator loads slowly on certain timeframes

Higher lookback values and tick-based calculation modes can be more demanding. If performance is an issue, try switching Calculate mode to 'On bar close' and reducing Maximum Bars Look Back to 15.

## 1.5 Getting Help & Support

The TrenVantage team is here to help. Reach out through any of the following channels:

■ Website	trenvantage.io
■ Email	trenvantage@gmail.com

■ <b>Discord</b>	<a href="https://discord.gg/xae6AvfG5e">discord.gg/xae6AvfG5e</a>
■ <b>Reddit</b>	<a href="https://reddit.com/r/TrenVantage">reddit.com/r/TrenVantage</a>
■ <b>TradingView</b>	<a href="https://tradingview.com/u/largepetrol">tradingview.com/u/largepetrol</a>

When reaching out, please include your TradingView username and a brief description of your issue or question. Screenshots are always helpful!

## 2.1 Smart Support & Resistance Levels

The S/R engine is the core feature of TrenVantage RETAIL. It automatically identifies the most structurally significant price zones on your chart using a refined pivot detection algorithm combined with candle-body weighting logic.

### How Levels Are Detected

The indicator scans for pivot highs and pivot lows — points where price has reversed after a sustained move. Rather than using the raw wick high or low (which can be dominated by noise from brief spikes), the engine applies body-priority logic: it weights the relevant open or close price to create a more reliable structural anchor point. This means levels are grounded in where price genuinely closed and committed, not just where it momentarily traded.

### Level Limits and Chart Cleanliness

The RETAIL edition maintains a maximum of three resistance levels and three support levels at any given time (six total). This is intentional — it keeps the chart focused on what matters most and avoids the analysis paralysis that comes from too many overlapping lines. As new pivots form, older or less relevant levels are removed to make room.

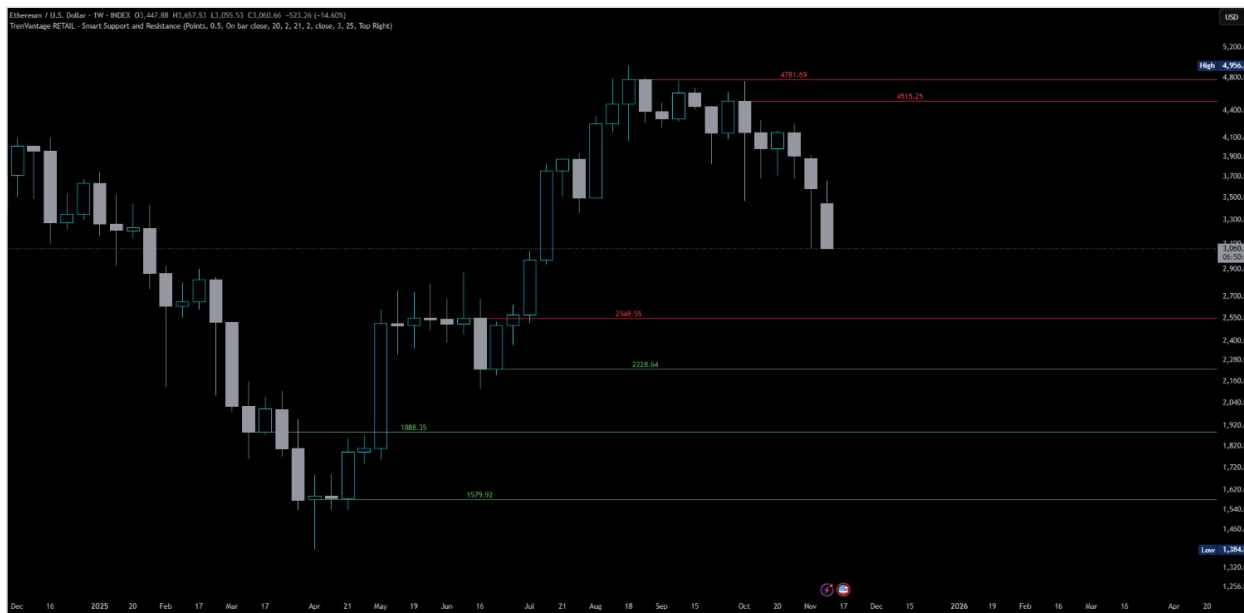


Fig. 2 — S/R levels only: red resistance lines above price, green support lines below. Note price labels at each level.

### Polarity Flip: Support Becomes Resistance (and Vice Versa)

One of the most powerful features of TrenVantage RETAIL is Polarity Flip. When enabled, the indicator monitors whether price has crossed through a level. If price closes above a resistance level, that level

flips to green and is reclassified as support — a classic concept in technical analysis known as role reversal. The opposite applies to support levels that get broken to the downside.

### Why Polarity Flip Matters

When a resistance level is broken and price later returns to that area, traders often look for it to act as support — 'former resistance, now support.' TrenVantage RETAIL automates this tracking in real time so you never miss a potential role reversal zone. You can control whether flips calculate live (tick-by-tick) or only on confirmed bar closes using the Flip Calculation setting.

## 2.2 Dynamic ZigZag Trend Engine

The ZigZag component visually maps the swing structure of the market. Rather than connecting every bar's price, it filters out minor moves and draws a line between meaningful swing highs and swing lows — giving you an at-a-glance picture of whether the market is making higher highs and higher lows (uptrend) or lower highs and lower lows (downtrend).

### Deviation-Based Filtering

The ZigZag uses a configurable deviation threshold to determine what qualifies as a meaningful swing. This is what separates genuine structural moves from noise. You can specify deviation in two ways: as a fixed number of points (e.g., 0.5 points) or as a percentage of price. Higher deviation values create fewer, bigger swings — useful for higher timeframe context. Lower values produce more detail but can introduce more frequent reversals.



Fig. 3 — ZigZag engine mapping swing structure. Each V-shape represents a confirmed swing low, each peak a swing high.

### Trend State Detection

The ZigZag engine doesn't just draw lines — it actively tracks whether the current market structure represents an uptrend or downtrend. This trend state is fed into the Status Box HUD and can trigger a dedicated alert when the trend shifts. The trend state is computed by tracking whether the most recent completed swing was a high or a low.

### High/Low vs. Close-Based Calculation

The 'Use High Low' setting controls whether the ZigZag uses bar highs and lows to detect swings (default: on) or relies on close prices only. Using highs and lows is generally preferred as it captures the true price extremes. Switching to close-only can reduce sensitivity to wick spikes on volatile assets.

## 2.3 Status Box Dashboard (HUD)

The Status Box is an on-chart information panel that consolidates the most important market context into a single, compact display. It updates in real time with every bar, giving you instant situational awareness without needing to trace lines or re-read the chart.

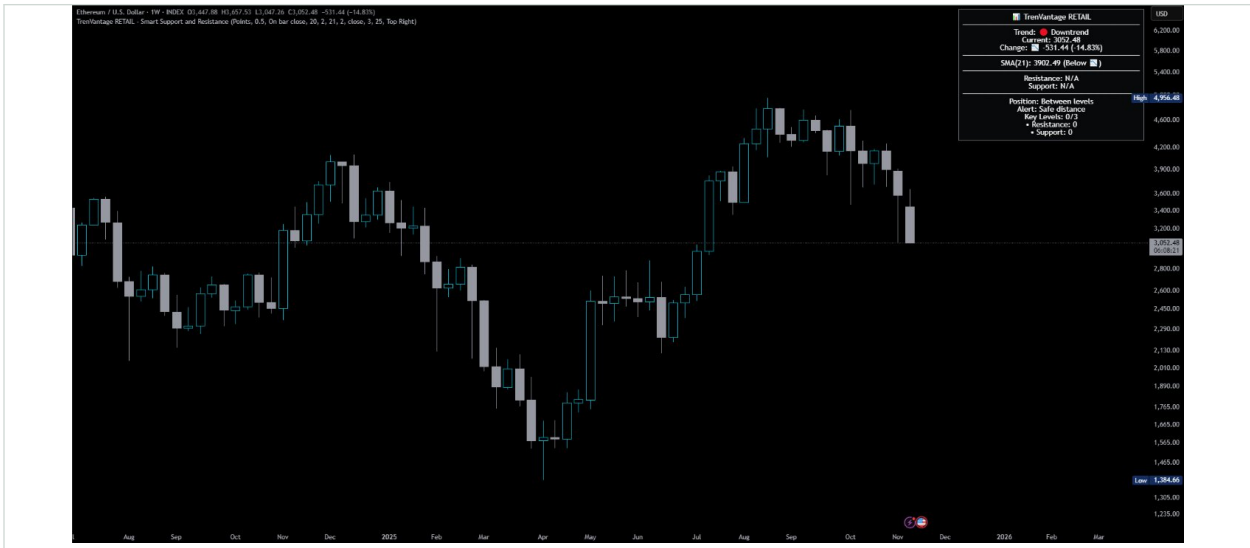


Fig. 4 — Status Box HUD in the top-right corner, showing trend state, price, SMA position, and S/R summary.

### What the HUD Displays

Setting	Default	Description
Trend	■ Uptrend / ■ Downtrend	Current directional bias from ZigZag structure.
Current Price	Live price	The real-time closing price of the current bar.
SMA Position	■ Above / ■ Below	Whether price is currently above or below the SMA.

Setting	Default	Description
Nearest Resistance	Price value + count	The closest resistance level above current price.
Nearest Support	Price value + count	The closest support level below current price.
Polarity Status	Enabled <input checked="" type="checkbox"/> / Disabled <input type="checkbox"/>	Whether the Polarity Flip engine is active.
Proximity Trigger	Points value	The current alert proximity threshold in points.
Alert State	None / Near Res / Near Sup	Whether price is currently near any S/R level.

### Themes and Positioning

The Status Box supports three visual themes — Dark (black background, white text), Light (white background, dark text), and Custom (fully user-defined colors and opacity). You can also reposition it to any corner of the chart: Top Left, Top Right, Bottom Left, or Bottom Right.

## 2.4 SMA Overlay

The optional SMA (Simple Moving Average) is a clean, adjustable trend filter plotted directly on the price chart. Its primary role is to add a directional layer that helps contextualize where price is relative to a defined lookback period.



Fig. 5 — SMA overlay (yellow) showing the medium-term trend direction across the price chart.

The default period is 21, which many traders find a useful balance between responsiveness and smoothness. You can adjust the period, color, width, and calculation source (close, open, high, low, or hl2) to match your personal methodology. The SMA is fully optional and can be hidden via the Show SMA toggle.

## 2.5 Alerts System

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TrenVantage RETAIL includes a two-part alert system designed to notify you of key market events without requiring you to watch the chart constantly.

### Proximity Alerts

These alerts fire when price approaches a support or resistance level within a user-defined distance. The threshold is set in points via the Proximity Alert Distance setting. For example, at the default of 25 points, an alert fires when price comes within 25 points of any active level — giving you time to assess the setup before price actually reaches the zone.

### Trend Change Alerts

A separate alertcondition tracks when the ZigZag engine registers a shift from downtrend to uptrend (or vice versa). These are structural signals based on confirmed swing changes and are distinct from the proximity alerts.

### Setting Up Alerts in TradingView

1. On your chart, right-click or use the clock icon in the TradingView toolbar to open the Alerts panel.
2. Click Create Alert.
3. Under Condition, select TrenVantage RETAIL – Smart Support and Resistance.
4. Choose your desired alert condition: Trend Changed to Uptrend, Trend Changed to Downtrend, or the script's built-in proximity condition.
5. Set your preferred notification method (popup, email, webhook, etc.) and click Save.

#### Alert Frequency Note

Proximity alerts use once-per-bar logic — meaning they will only fire once per bar when price first enters the threshold zone, not continuously. This prevents alert fatigue from rapid price oscillations near a level.

All settings are accessed via the indicator's settings panel (gear icon on the chart). Each group is described below with default values and guidance on when to adjust them.

### 3.1 ZigZag Settings

Setting	Default	Description
Deviation Type	Points	Choose 'Points' for fixed-point distance or 'Percent' for a relative percentage-based deviation filter. 'Points' is recommended for most assets.
Deviation Value	0.5	The minimum move (in points or percent) required to register a new swing. Increase to filter out minor swings; decrease for more sensitivity.
Use High Low	On	When enabled, uses bar highs and lows to detect swings. Disable to use close prices only — useful on very volatile assets prone to wick noise.
Calculate	On bar close	'On bar close' waits for bar confirmation before updating — more stable. 'On tick' updates in real time but may show temporary line shifts.
Maximum Bars Look Back	20	Controls how many historical swing points are retained. Range: 15–30. Higher values show more history but may slow rendering.

### 3.2 Visual Settings

Setting	Default	Description
Trend Line Color	Blue	Color of the ZigZag trend lines drawn between swing points.
Trend Line Width	2	Thickness of the ZigZag lines. Range 1–4. Use higher values for better visibility on larger screens.

### 3.3 SMA Settings

Setting	Default	Description
Show SMA	On	Toggles the SMA overlay on or off. Disable to simplify the chart if you prefer to use the ZigZag and S/R alone.
SMA Period	21	The lookback period for the SMA calculation. Common values: 20, 21, 50, 100, 200. Shorter periods are more reactive; longer periods show broader trend.

Setting	Default	Description
SMA Color	Yellow	Display color for the SMA line. Adjust to match your chart color scheme.
SMA Width	2	Line thickness. Range 1–4.
SMA Source	Close	The price data used to calculate the SMA. 'Close' is standard. Other options: open, high, low, hl2 (midpoint), etc.

### 3.4 S/R Settings

Setting	Default	Description
Show S/R Levels	On	Master toggle for all S/R lines and labels. Turn off to use only the ZigZag and SMA components.
Max Levels Per Side	3	Maximum number of resistance or support lines shown at once (3 resistance + 3 support = 6 total). Range: 1–3. Reduce to 1 or 2 for an even cleaner view.
Show Price Labels	On	Displays the exact price of each S/R line as a floating label. Disable if labels clutter a busy chart area.

### 3.5 S/R Logic Control

Setting	Default	Description
Enable Polarity Flip	On	When enabled, a broken resistance converts to support (green) and a broken support converts to resistance (red). A foundational S/R concept automated in real time.
Flip Calculation	On Bar Close	Controls when polarity flips are evaluated. 'On Bar Close' is more stable — a flip only registers on confirmed candle closes. 'Live (Tick)' flips in real time as price crosses.

### 3.6 Alert Settings

Setting	Default	Description
Proximity Alert Distance	25 pts	How close price must get to a level (in points) to trigger a proximity alert. Increase for earlier warnings; decrease for tighter, more precise alerts.
Enable Proximity Alerts	On	Toggles proximity-based alerts on or off. Trend change alerts are managed separately via TradingView's alertcondition system.

### 3.7 Status Box UI Settings

Setting	Default	Description
Show Status Box	On	Toggles the on-chart HUD panel. Disable for a completely clean chart view.
Position	Top Right	Corner placement of the Status Box. Options: Top Left, Top Right, Bottom Left, Bottom Right.
Box Theme	Dark	'Dark' = dark background, white text. 'Light' = white background, dark text. 'Custom' = user-defined colors below.
Custom Background Color	Black 85%	Active when Theme is set to 'Custom'. Sets the background color of the box.
Custom Text Color	White	Active when Theme is 'Custom'. Sets the text color inside the box.
Background Opacity	85%	Controls the transparency of the box background. Higher = more opaque. Lower = more see-through.

The following scenarios illustrate how different traders might use TrenVantage RETAIL to improve their chart reading and analysis process. These are educational examples of how the tool functions — not trading advice, entry signals, or recommendations of any kind.

## 4.1 Trend Confirmation Approach

Before making any analysis decision, many traders want to quickly establish whether the market is trending or ranging, and in which direction. TrenVantage RETAIL provides two independent signals for this: the ZigZag trend state and the SMA relationship.

### Using These Together:

- Check the Status Box HUD for the Trend field — is it showing ■ Uptrend or ■ Downtrend?
- Look at the SMA line on the chart. Is price consistently trading above or below it?
- When both the ZigZag trend state and the SMA position align (e.g., both bullish), the directional bias is stronger.
- When they diverge (e.g., ZigZag shows uptrend but price has crossed below the SMA), that may indicate a transition worth watching more closely.

#### Practical Tip

The HUD's SMA position row updates every bar. A quick glance at whether the SMA field shows '■ Above' or '■ Below' can instantly orient you without needing to visually trace the SMA curve across the chart.

## 4.2 Level Reaction Monitoring

One of the most common uses of S/R analysis is monitoring how price behaves when it approaches a known level. TrenVantage RETAIL automates the detection and notification aspects of this process.

- Identify the nearest resistance or support level from the HUD (or visually on the chart).
- Set a Proximity Alert Distance that gives you enough lead time to observe price action as it approaches. For slower-moving daily timeframes, 25–50 points may be appropriate. For faster intraday charts, tighter thresholds may work better.
- When an alert fires, observe how price behaves at the level — does it stall, reverse, consolidate, or break through?
- The Polarity Flip feature will automatically update the line color if price breaks through the level, giving you a visual cue that the level's role has changed.

## 4.3 Polarity Flip Awareness

Polarity (or role reversal) is the concept that a level which previously acted as resistance can become support once price breaks above it — and vice versa. TrenVantage RETAIL tracks this automatically.

Watch for moments when a red resistance line flips to green — the indicator has identified that price has closed above that level and reclassified it. Similarly, a green line turning red means price has closed below it. These polarity transitions can indicate structural shifts worth noting.

### Flip Calculation Setting

For analyzing completed bars (e.g., daily or weekly charts), 'On Bar Close' is generally preferable as it avoids false flips from intrabar price spikes. For real-time scalping analysis, 'Live (Tick)' keeps the chart up to date instantly. Choose whichever matches your trading style.

## 4.4 Multi-Timeframe Context

TrenVantage RETAIL works on any timeframe independently. A practical approach many chart readers use is to apply the indicator on a higher timeframe (such as the daily or weekly chart) first to identify the most significant structural levels, and then switch to a lower timeframe for more detailed analysis while being aware of those higher-timeframe zones.

- On the weekly chart, note the major S/R levels identified by the indicator.
- Switch to the daily or 4-hour chart. Look for the same approximate price areas — do any current daily-chart levels align with the weekly levels? These overlapping zones carry added structural significance.
- The ZigZag trend state on the higher timeframe gives you the macro context. On the lower timeframe, you can observe more granular swing structure.
- The Status Box HUD on each timeframe gives you that timeframe's specific trend state and level proximity.

### Remember

TrenVantage RETAIL is a market structure and visualization tool. It helps you read and interpret price behavior more clearly. All analysis decisions, risk assessment, and any actions taken are entirely your own responsibility. Nothing in this guide constitutes financial advice.

## 5.1 Support Channels

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Have a question, found an issue, or want to connect with other TrenVantage users? Here is how to reach us:

### ■ Website

[trenvantage.io](https://trenvantage.io)

Visit our website for the latest updates, announcements, and indicator information.

### ■ Email

[trenvantage@gmail.com](mailto:trenvantage@gmail.com)

For direct support questions, access requests, or business inquiries. Include your TradingView username when writing in.

### ■ Discord

[discord.gg/xae6AvfG5e](https://discord.gg/xae6AvfG5e)

Join our community Discord server for real-time support, discussion, and indicator updates. This is the fastest way to get help.

### ■ Reddit

[reddit.com/r/TrenVantage](https://reddit.com/r/TrenVantage)

Our subreddit community for discussions, chart shares, and Q&A.;

### ■ TradingView

[tradingview.com/u/largepetrol](https://tradingview.com/u/largepetrol)

Follow the indicator's TradingView page for release notes and version updates.

## 5.2 Disclaimer

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*TrenVantage RETAIL – Smart Support and Resistance is a technical analysis tool provided for informational and educational purposes only. It does not constitute financial advice, trading advice, or investment recommendations of any kind. All trading and investing involves risk, including the potential loss of capital. Past performance of any indicator, method, or strategy does not guarantee future results.*

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*You are solely responsible for all analysis, decisions, and actions taken based on this tool. Always apply your own judgment, conduct independent research, and use appropriate risk management practices. If you require financial advice, please consult a qualified financial professional.*



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