

# MomentumIgnitionScalper

Expert Advisor Documentation & Strategy Guide

## PLATFORM

MetaTrader 5 (MT5)

## TYPE

Momentum Breakout Scalping

## TIMEFRAME

M1 (EURUSD)

## WEBSITE

[www.algotbot.live](http://www.algotbot.live)

**⚠ Important Disclaimer** This document is for educational and informational purposes only. It does not constitute financial or investment advice. Trading forex, CFDs, and other leveraged instruments involves substantial risk of loss and is not suitable for all investors. Past backtest performance does not guarantee future results. Never trade with capital you cannot afford to lose.

## Overview

**MomentumIgnitionScalper** is a pure price-action scalping Expert Advisor that uses **no indicators of any kind** — no moving averages, RSI, or ATR. Every decision is derived directly from raw candle data.

The strategy is built on a single, well-known order-flow phenomenon: *momentum ignition continuation*. After a stretch of quiet, evenly sized candles, one bar suddenly fires off with a body that dwarfs the recent average *and* closes hard into its own extreme while breaking the high or low of the small consolidation that preceded it. That bar is the market tipping its hand — a burst of one-sided order flow. The EA jumps in the **same direction**, expecting the thrust to carry a few more pips, then bails fast. This is classic M1 scalping behaviour.

Risk is structural and self-scaling. The stop sits just beyond the ignition bar's opposite extreme (expressed as a fraction of that bar's own range, so it adapts to any symbol or timeframe without point math), and the target is a fixed reward-to-risk multiple. A spread gate keeps the scalp realistic. The default playground is a tight-spread, fast pair such as **EURUSD on M1**.

**Why it can work:** Genuine range expansion off a compressed base tends to *extend* before it mean-reverts. The EA only takes the burst when three forms of conviction line up — an oversized body, a close at the extreme, and a micro break of structure — then caps risk to a small slice of that same bar.

## How It Works

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The EA evaluates only once per **newly-closed bar**. On each new bar it inspects the bar that just closed (shift 1) — the "ignition candidate" — against the bars immediately before it.

### Pre-Trade Gates

- **One position per magic:** if a position with the EA's magic number is already open on the symbol, no new trade is taken — the structural stop and target handle the exit.
- **Spread gate:** if the current spread (in points) exceeds `MaxSpreadPoints`, the bar is skipped to keep the scalp realistic.
- **History gate:** enough closed bars must exist to compute the body average and breakout range.
- **Valid range:** the ignition bar must have a positive high-to-low range and a positive recent average body.

### Ignition Detection

For the just-closed candidate bar the EA computes three things:

- **Body burst:** the candidate body ( `|close - open|` ) must be at least `BurstBodyFactor` × the average body of the prior `BodyAvgLookback` bars. This is what separates a genuine ignition from ordinary noise.
- **Close location:** the close must land within the top fraction (long) or bottom fraction (short) of the bar's range, defined by `CloseLocationFrac`. A close at the extreme demands conviction rather than a fat rejection wick.
- **Structure break:** the candidate close must push beyond the highest high (long) or lowest low (short) of the prior `BreakoutLookback` bars — a micro break of structure.

### Entry Logic

**LONG** — taken when all three conditions agree to the upside:

```
bullBurst    = close > open                // bullish candle
closedStrong = (close - low) / range >= 1 - CloseLocationFrac // closed near the high
brokeUp      = close > priorHigh           // broke prior consolidation high
=> BUY at Ask
```

**SHORT** — the mirror image, taken when all three agree to the downside:

```
bearBurst    = close < open                // bearish candle
closedWeak   = (high - close) / range >= 1 - CloseLocationFrac // closed near the low
brokeDown    = close < priorLow           // broke prior consolidation low
=> SELL at Bid
```

## Stop Loss & Take Profit

Risk is structural — anchored to the ignition bar itself, not to fixed pip values:

- **Long stop:**  $\text{ignitionLow} - \text{StopBufferFrac} \times \text{range}$  (just below the ignition bar's low).
- **Short stop:**  $\text{ignitionHigh} + \text{StopBufferFrac} \times \text{range}$  (just above the ignition bar's high).
- **Risk distance:** the distance from entry to that stop.
- **Take profit:**  $\text{entry} \pm \text{RewardRatio} \times \text{risk}$  — a fixed reward-to-risk multiple of the structural stop distance.

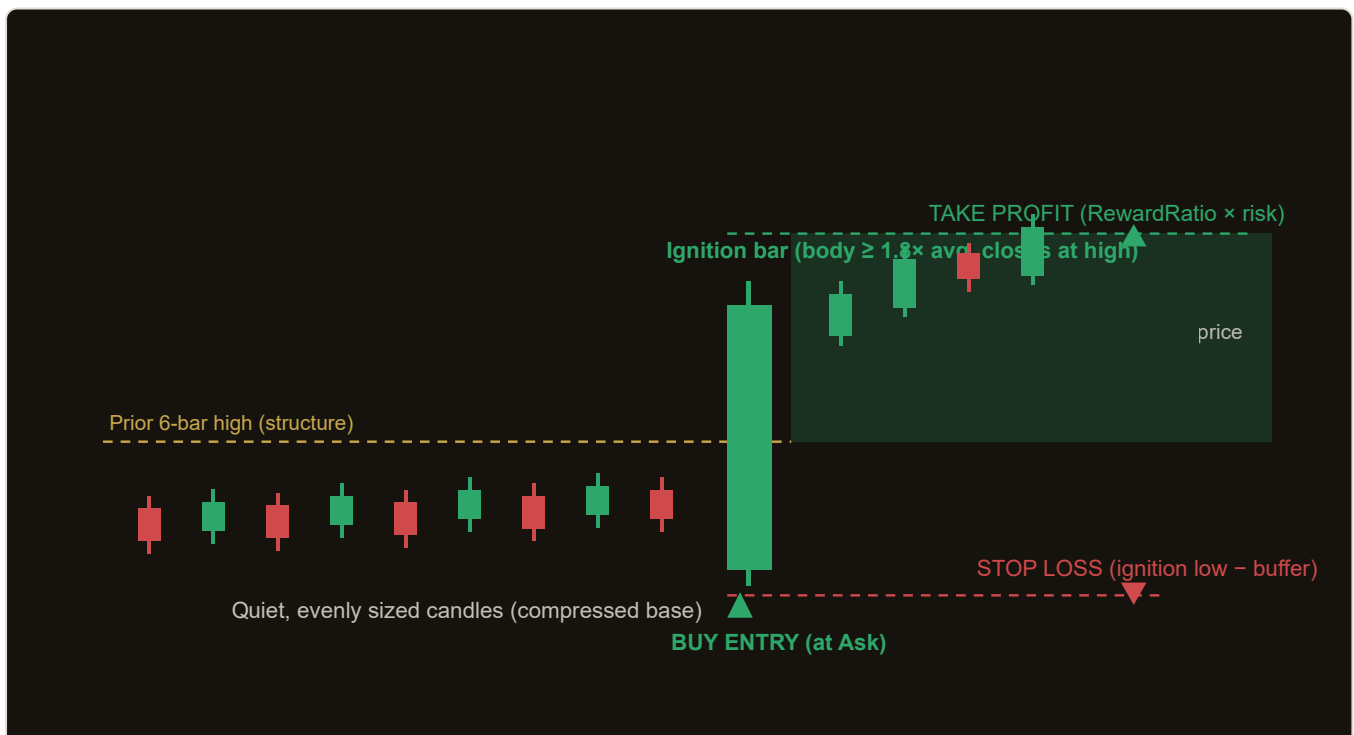
Because both the stop and target scale with the ignition bar's own range, the EA self-adjusts to volatility and to any symbol or timeframe without point arithmetic. The trade is then left to resolve at either the stop or the target — there is no separate trailing or time-based exit.

### Worked example (illustrative)

Suppose the recent average body is 3 pips and a bullish bar closes with an 8-pip body ( $8 \div 3 \approx 2.7 \times \geq 1.80$ ), finishing in the top 30% of its 10-pip range and pushing above the prior 6-bar high. The EA buys at the Ask. With  $\text{StopBufferFrac} = 0.10$ , the stop sits 1 pip below the ignition low; if that risk is ~6 pips, a  $\text{RewardRatio}$  of 1.50 places the target ~9 pips above entry.

## Strategy in Action

The illustration below shows an example of how the strategy identifies a setup and triggers its entry and exit. This is a simplified, illustrative example for educational purposes — not real market data.



*Illustrative example only. Actual market behaviour varies.*

## Parameters

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Parameter	Default	Description
BodyAvgLookback	12	How many prior bars define the "recent average body" baseline. Range 5–40, step 1.
BurstBodyFactor	1.80	The ignition body must be at least this multiple of the average body. Range 1.20–4.00, step 0.10.
BreakoutLookback	6	Number of prior bars whose high/low the ignition close must break (micro structure). Range 3–20, step 1.
CloseLocationFrac	0.30	The close must land within this top (long) / bottom (short) fraction of the ignition bar's range — demands conviction, not a fat rejection wick. Range 0.10–0.50, step 0.05.
StopBufferFrac	0.10	Stop buffer beyond the ignition bar's opposite extreme, expressed as a fraction of that bar's range. Range 0.00–1.00, step 0.05.
RewardRatio	1.50	Take-profit distance as a multiple of the structural stop distance. Range 0.80–4.00, step 0.10.
MaxSpreadPoints	20	Skip the trade if the current spread (in points) is wider than this. Range 1–200, step 1.
Lots	0.10	Order volume in lots. Range 0.01–1.00, step 0.05.
Magic	7411	Magic number used to identify and manage this EA's positions. Range 0–9,999,999, step 1.

## Recommended Settings

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The strategy is designed around fast, tight-spread instruments where genuine range expansion off a compressed base is common.

- **Symbol:** A liquid, tight-spread major such as EURUSD (or a comparable low-spread pair).
- **Timeframe:** M1 — the strategy is a true scalper that acts on each newly-closed minute bar.
- **Spread gate:** Keep `MaxSpreadPoints` conservative on M1; raising it lets the EA trade through costly conditions that erode a small scalp.
- **Burst sensitivity:** A higher `BurstBodyFactor` takes fewer but more decisive ignitions; a lower value trades more often but with weaker conviction.

- **Reward target:** The default `RewardRatio` of 1.50 favours a quick scalp; raising it aims for larger thrusts at the cost of hit rate.

**Tip:** Because every threshold (body, close location, stop buffer) is expressed as a fraction or multiple rather than a fixed pip value, the EA can be tested on other symbols and timeframes without re-tuning point-based settings. Always forward-test any new instrument before going live.

## How to Install on MetaTrader 5

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- 1 Copy `MomentumIgnitionScalper.ex5` to your MT5 `MQL5\Experts\` folder
- 2 Restart MetaTrader 5 and refresh the Navigator panel
- 3 Drag the EA onto a chart matching the recommended symbol and timeframe (EURUSD, M1)
- 4 Configure the input parameters and click **OK**
- 5 Enable **Algo Trading** in the MT5 toolbar

## Risk Warning

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