AE DoubleBreakTrendLine

EA at:

A spread filter: No transaction is made if the spread exceeds the limit indicated.
Whether opening or closing.
If an open signal appears, it is ignored.
For the close signal, you have to wait until the spread is good before closing a transaction.

Automatic batch management
For the automatic management of the lot, use the formula: (balance / 1000) x lot

Strategy

Indicators

The " FractalTrendLine " indicator draws trend lines.

Trend lines are drawn in red for downtrend lines and in green for uptrend lines.

A 'Buy' trade is opened when a downtrend line is broken.
A " Sell " trade is opened when an uptrend line is broken.

The " Keys_Levels " flag will be used to determine certain lock levels.

Opening and closing of the trade

The opening conditions of the trade are inspired by the theory of Dow.

Opening

Two trend lines are present. One red and one green.
If it is a green trendline, it is broken if the price crosses it from the top to the bottom.
If it is a red trendline, it is broken if the price crosses it from the bottom to the top.

A trend line is broken by the price. We call it line 1.
The second trend line is called line 2.

At this time, it is necessary to check if the opening conditions are good.
These conditions are as follows: Measure the number of points between the start of trend line 1 and the start of trend line 2.
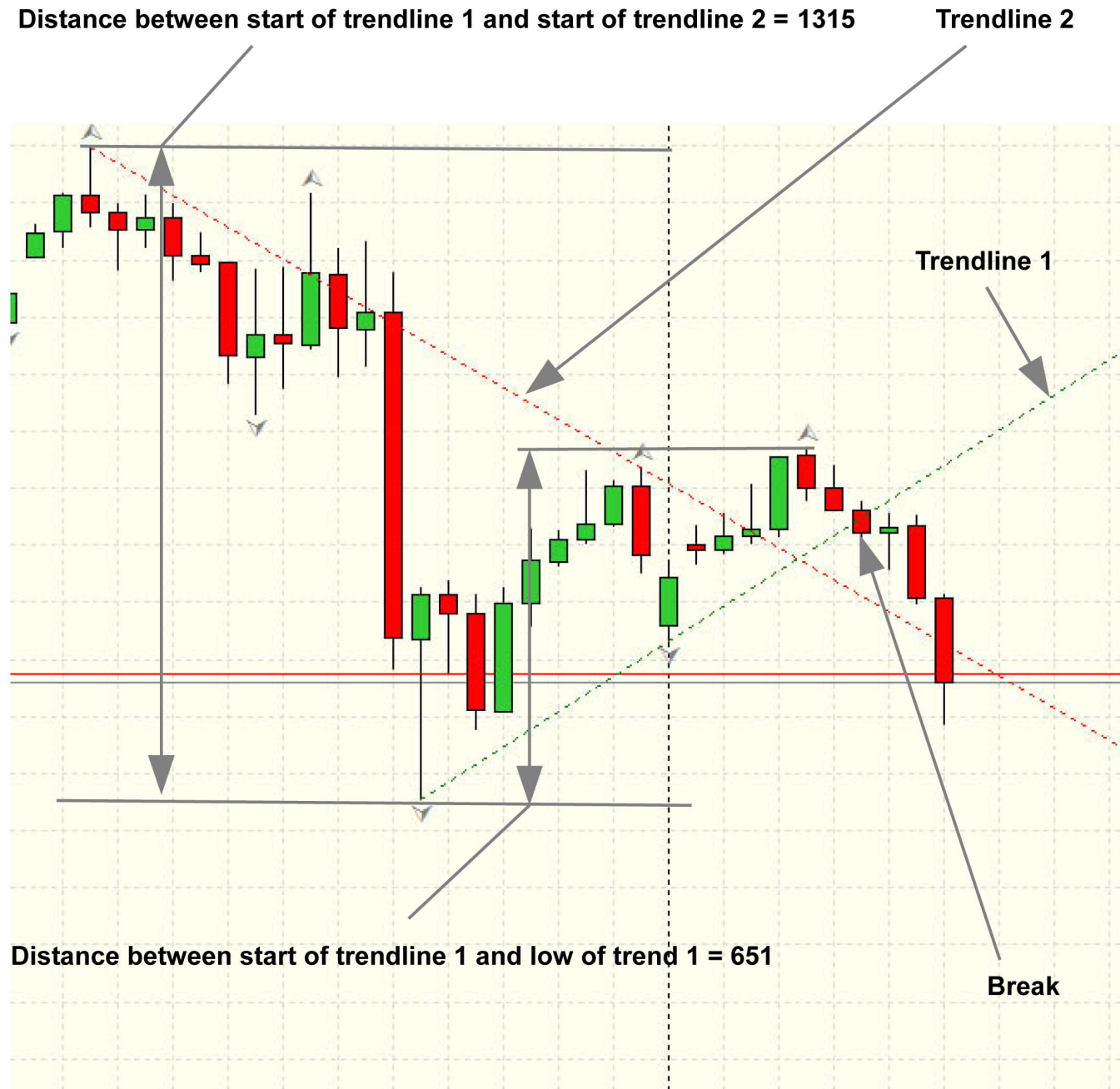Then measure the number of points between the start of trendline 1 and the low / high reached by trend 1.
For this, it is necessary to control the low / high reached by the price between the first bar, the one that is at the beginning of the trend line and the bar that breaks the trend line.

This measurement should be done when trendline 1 is broken.
If the number of points between the start of trend 1 and its low / high is between 25 and 60% of the number of points between the start of trend 1 and the start of trend 2, the trade is opened.

It can happen that the candle which completes the Fractal allowing the creation of a trend line is also the candle which breaks this same trend line. If possible (?), This candle and the created trendline should be used.

Examples of trades with drawings.

There are 1315points between the start of Trend 1 and the start of Trend 2.
There are 651 points between the start of Trend 2 and the low of Trend 2
651 = 49.50% of 1315, this is within the expected range.
The trade will be opened.

Distance between start of trendline 1 and start of trendline 2 = 1315   **Trendline 2**

Trendline 1

Distance between start of trendline 1 and low of trend 1 = 651

Break

Filters

The trade will not be opened if the price is too close to the support / resistance level which will be its TP.
This value will be equal to the minimum ATR for the period. (ATR always indicates the maximum and minimum of the period).
This rule also applies to the half-levels that can be used on certain pairs (see Closing chapter).

The trade will not be opened if the price touches (with a wick) the key level which will be its TP without crossing it at the same time as it breaks the trend line.

The trade will not be opened if the price does not break the trendline of 20% of the value of the minimum ATR.
Example, if the minimum ATR is at 60 points, the price will have to break the trend line by 12 points to be validated.
In this case, you have to wait for the next candle. If it meets the conditions, a trade will be opened. If the next candle does not bring the right conditions, the trade will be permanently canceled.

If the price breaks a trend line and a key level at the same time, the key level will have to be crossed (at the close of the candle) by 25% of the minimum ATR.
If this is not the case, you have to wait for the next candle. If it meets the conditions, a trade will be opened. If the next candle does not bring the right conditions, the trade will be permanently canceled.

The trade will not be opened if the signal candle exceeds 2.5 ATR

A trendline that has already been broken to open one trade cannot be used to open another.

Option: With this option, only trades which have a possibility of winning greater than a possibility of losing are opened.
For example, if the potential gain is 150 points and the possible loss is 100 points, the trade is opened.
If the potential gain is 80 points and the possible loss is 130 points, the trade is canceled

Trendline 2

Breaks, but the trade is not opened because the distance between the price and the exit level is too small (49 pts, 50 pts is needed)

Trendline 1

second break. good to open the trade

Level for SL

Level for TP

The trendline is still broken, but a trade has already been opened with this line. No more trade should be opened.

Closures

The Expert uses the Keys_Levels indicator to indicate the closure levels.
This indicator plots the levels corresponding to round numbers, i.e. x, x000, 200, 500, 800.
For some pairs, the difference between the levels is too large, it is necessary to provide a specific function (Half level: true / false). This will allow you to add a level by dividing by two the largest levels, i.e. x, x000, 200, 350, 500, 650, 800

Note that for pairs using the Yen, and therefore 3 decimal places, the indicator shows x, 000 .. etc.

The price always closes between two levels. The distance between two levels is divided into two halves.
The first half is the one that is in the direction of the trade.
This means that if it is a Buy trade, the first half is the lower half.
If it's a Sell trade, the first half is the top half.
So if the price closes in the first half, the SL will be placed at an equal distance between the two levels located before the trade.
If the price closes in the second half, the SL will be placed at the level before the trade.
The price must close behind the SL for the SL to be validated. A wick is not enough.

Key Level

Trendline 2

Trendline 1

Keys levels

Half Levels activated

The TP will be placed at the level after the trade. The distance conditions must be respected (see chapter Filters).
The TP will be activated when the price touches the level.

As soon as the 90% of the distance between the opening price and the TP is reached, the SL will rise to the level of the opening of the trade.

This TP is valid as long as the trend lines used remain the same.
If one of the lines changes, you must exit as soon as there is a gain greater than or equal to half an ATR (without waiting for the closing of a candle).

the price closes in the first half, the SL will be placed at an equal distance between the two levels located before the trade.

Trendline 2

Break

Trendline 1

SL level

TP level

the price is located in the first half of the distance between two levels

Half Levels activated