



Ehlers Decycler Oscillator

everget WIZARD Mar 15, 2019



This indicator was originally developed by John F. Ehlers ([Stocks & Commodities](#), V.33:10 (September, 2015): "Decyclers").

The idea is still the same as for the Simple Decycler.

Mr. Ehlers suggested to virtually eliminate lag by getting rid of the very low-frequency components. So, he applied the high-pass filter to the simple decycler.

Mr. Ehlers recommended to use two instances of the Decycler Oscillator with different parameters (high-pass filter period and multiplier). As a result, he got the Decycler Oscillator pair. The first oscillator (red line) has a period of 125 bars, the second one (yellow line) has a period of 100 bars.

The interpretation is straightforward:

- When the yellow line crosses over the red line, a trend reversal to the upside is indicated.
- When the yellow line crosses under the red line, a trend reversal to the downside is indicated.

Freelance → Telegram: @alex_everget

A list of Free Indicators:
<https://bit.ly/2SEPU>

A list of Paid Indicators:
<https://bit.ly/33MA81f>

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[Website](#)

Açık kaynak kodlu komut dosyası

Gerçek TradingView ruhuyla, bu bettin yazan, yatırımcının anlayabilmesi ve doğrulanabilmesi için onu açık kaynak olarak yayınladı. Yazarı eline sağıltı! Bunu ücretsiz olarak kullanabilirsiniz, ancak bu kodun bir yanında yerinden kullanılmış [Kullanım Koşulları](#) ile yönetilir. Bir grafikte kullanmak için favorilere ekleyebilirsiniz.

Feragatname

Bilgiler ve yazılar, TradingView tarafından sağlanan veya onaylanan finansal, yatırım, işlem veya diğer türden tavsiye veya tavsiyeler anlamına gelmez ve teşkil etmez. [Kullanım Şartları](#)nda daha fazlasını okunun.

Bu komut dosyasını bir grafikte kullanmak ister misiniz?

[★ Favori göstergelere ekle](#)

```
1 //@version=3
2 // Copyright (c) 2019-present, Alex Orehkov (everget)
3 // Ehlers Decycler Oscillator script may be freely distributed under the MIT license.
4 study("Ehlers Decycler Oscillator", shorttitle="Decycler Oscillator")
5
6 hpPeriod = input(title="High-pass Filter Period", type=integer, defval=125)
7 k = input(title="Multiplier", type=float, step=.1, defval=1)
8 hpPeriod2 = input(title="High-pass Filter Period 2", type=integer, defval=100)
9 k2 = input(title="K Multiplier 2", type=float, step=.1, defval=1.2)
10 src = input(title="Source", type=source, defval=<close>)
11 highlightCrossovers = input(title="Highlight Crossovers ?", type=bool, defval=true)
12 highlightZeroCrossovers = input(title="Highlight Zero Line Crossovers ?", type=bool, defval=false)
13 applyFilling = input(title="Apply Ribbon Filling ?", type=bool, defval=false)
14
15 PI = 2 * asin(1)
16
17 // High-pass Filter
18 _hp(src, hpPeriod, mult) =>
19 alphaArg = 2 * PI / (mult * hpPeriod * sqrt(2))
20
21 alpha = 0.0
22 alpha := cos(alphaArg) != 0
23     ? (cos(alphaArg) + sin(alphaArg) - 1) / cos(alphaArg)
24     : nz(alpha[1])
25
26 hp = _hp(src, hpPeriod, 1)
27 hp := pow(1 - (alpha / 2), 2) * (src - 2 * nz(src[1]) + nz(src[2])) + 2 * (1 - alpha) * nz(hp[1]) - pow(1 - alpha, 2) * nz(hp[2])
28
29
30 hp = _hp(src, hpPeriod, 1)
31 decycler = src - hp
32 decosc = 100 * k * _hp(decycler, hpPeriod, 0.5) / src
33
34 hp2 = _hp(src, hpPeriod2, 1)
35 decycler2 = src - hp2
36 decosc2 = 100 * k2 * _hp(decycler2, hpPeriod2, 0.5) / src
37
38 trendColor = decosc2 > decosc ? #0ebb23 : red
```

```

39
40 decoscColor = applyFilling ? trendColor : #ff5048
41 decoscColor = applyFilling ? trendColor : #f5c75e
42
43 decoscPlot = plot(decosc, title="1", linewidth=2, color=decoscColor, transp=0)
44 decosc2Plot = plot(decosc2, title="2", linewidth=2, color=decosc2Color, transp=0)
45 hline(0, title="Zero Level", linestyle=dotted)
46
47 transparent = color(white, 100)
48
49 fillColor = applyFilling ? trendColor : transparent
50 fill(decoscPlot, decosc2Plot, color=fillColor, transp=70)
51
52 zeroCrossBgColor = highlightZeroCrossovers ? (decosc > 0 or decosc2 > 0 ? green : red) : transparent
53 bgcolor(zeroCrossBgColor, transp=85)
54
55 plotshape(highlightCrossovers and crossover(decosc, decosc2) ? avg(decosc, decosc[1]) : na, title="Crossover", location=location.absolute, style=shape.circle, size=size.tiny, color=green, transp=0)
56 plotshape(highlightCrossovers and crossunder(decosc, decosc2) ? avg(decosc, decosc[1]) : na, title="Crossunder", location=location.absolute, style=shape.circle, size=size.tiny, color=red, transp=0)
57

```

Yorumlar



Yararlı veya teşvik edici bir yorum bırakın. Piyasalarla birlikte hakim olalım

Alıntıları yorum

Yorum Paylaş

nilux Premium · Nis 9, 2019

Great stuff buddy! I appreciate your work. Thank you!

+3 Cevap Gönder

everget WIZARD · Nis 9, 2019

@nilux, thanks mate!

+1 Cevap Gönder

djseddy333 Premium · Haz 18, 2019

Great Work!

+2 Cevap Gönder

everget WIZARD · Haz 18, 2019

@djseddy333, glad to hear that!

+2 Cevap Gönder

TradeIQ207 · Oca 14, 2020

Hello Everget, Thank you for another amazing script! What time-frame(s) would you recommend using it on?

+1 Cevap Gönder

everget WIZARD · Oca 14, 2020

@TradeIQ207, Hi, thank you. It depends on an asset/instrument

+1 Cevap Gönder

marketrading001 · Oca 6, 2021

I don't understand how/why a high pass is being applied to the decycler at half the high pass period, as indicated by the 0.5 in the code:

decosc = 100 * k * _hp(decycler, hpPeriod, 0.5) / src.

It makes no sense to have a high pass filter at half the period at which the decycler was calculated. It's like calculating for longer cycle periods and then removing them with the high pass filter.

+1 Cevap Gönder