



The Indicator is based on Akram El Sherbini's article "Time Cycle Oscillators" published in IFTA Journal 2018 (pages 78-80) (<http://www.ftaa.org.hk/Files/20181301017...>)

The SHO is a bounded oscillator for the simple harmonic index that calculates the period of the market's cycle. The oscillator is used for short and intermediate terms and moves within a range of -100 to 100 percent. The SHO has overbought and oversold levels at +40 and -40, respectively. At extreme periods, the oscillator may reach the levels of +60 and -60. The zero level demonstrates an equilibrium between the periods of bulls and bears. The SHO oscillates between +40 and -40. The crossover at those levels creates buy and sell signals. In an uptrend, the SHO fluctuates between 0 and +40 where the bulls are controlling the market. On the contrary, the SHO fluctuates between 0 and -40 during downtrends where the bears control the market. Reaching the extreme level +60 in an uptrend is a sign of weakness. Mostly, the oscillator will retrace from its centerline rather than the upper boundary +40. On the other hand, reaching +60 in a downtrend is a sign of strength and the oscillator will not be able to reach its lower boundary -40.

Centerline Crossover Tactic

This tactic is tested during uptrends. The buy signals are generated when the WPO/ SHO cross their centerlines to the upside. The sell signals are generated when the WPO/ SHO cross down their centerlines. To define the uptrend in the system, stocks closing above their 50-day EMA are considered while the ADX is above 18.

Uptrend Tactic

During uptrends, the bulls control the markets, and the oscillators will move above their centerline with an increase in the period of cycles. The lower boundaries and equilibrium line crossovers generate buy signals, while crossing the upper boundaries will generate sell signals. The "Re-entry" and "Exit at weakness" tactics are combined with the uptrend tactic. Consequently, we will have three buy signals and two sell signals.

Sideways Tactic

During sideways, the oscillators fluctuate between their upper and lower boundaries. Crossing the lower boundary to the upside will generate a buy signal. On the other hand, crossing the upper boundary to the downside will generate a sell signal. When the bears take control, the oscillators will cross down the lower boundaries, triggering exit signals. Therefore, this tactic will consist of one buy signal and two sell signals. The sideway tactic is defined when stocks close above their 50-day EMA and the ADX is below 18.

Açık kaynak kodu komut dosyası

Gerekç TradingView rühuyla, bu betin yazarı, yatırımcının anlayabilmesi ve doğrulanabilmesi için onu açık kaynak olarak paylaştı. Yazarın eline sağılı Bunu ücretsiz olarak kullanabilirsiniz, ancak bu kodun bir yanında yerden kulanımı [Kullanım Koşulları](#) ile yönettilir. Bir grafikte kullanmak için favorilere ekleyebilirsiniz.

Feragatname

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

Bu komut dosyasını bir grafikte kullanmak ister misiniz? [★ Favori göstergelere ekle](#)

```

1 // @version=3
2 // Quick explanation how to trade this indicator:
3 // https://puu.sh/zfVns/f0ec85d413.jpg
4 //
5 study("Simple Harmonic Oscillator", overlay = false, precision=5)
6
7 src = input(close)
8 len = input(14, "SHO Length")
9 pl=3.14159265359
10
11 sho(s)=>
12     C = s
13     Cy = C[1]
14     Cu = C[2]
15     Cv = C - Cy
16     Vy = Cy - Cby
17     At = Vt - Vy
18     A = ema(At, len)
19     T = 2 * pi * (sqrt(abs(Vt / A)))
20     Tl = T - 1
21     Vp = ema(Tl, len)
22     Tp = ema(T, len)
23     SHO= (Vp / Tp) * 100
24
25 cgreen = green
26 cred = red
27
28 sho_line = sho(src)
29 signal=ma(sho_line, 3)
30
31 plot(signal, color = sho_line > 0 ? cgreen : cred, style = histogram, linewidth=2, transp=0, title="SPO")
32 plot(sho_line, color = silver, linewidth=1, transp=30, title="Signal")
33 plot(signal, color = rising(signal, 1) / green:red, linewidth=2, transp=30, title="Signal")
34
35 hline(40, title="")
36 hline(0, title="")
37 hline(-40, title="")
38
39 div_max = 40
40 p1 = plot(div_max, color = silver, style = circles, title="")
41 p2 = plot(div_max * -1, color = silver, style = circles, title="")
42
43 pmax = plot(max(div_max, sho_line), color = na, title="")
44 pmin = plot(min(div_max * -1, sho_line), color = na, title="")
45
46 cred_overbought = red
47 cgreen_oversold = green
48 fill(p1, pmax, color = cred_overbought, transp = 50)
49 fill(p2, pmin, color = cgreen_oversold, transp = 50)

```

Yorumlar

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

 **Karthi056** · Üyelik: 11 · CEP · PM

Another precious kit. Thank you. It is also one among very useful indicators for beginners like me.

 [Cevap Gönder](#)

 [Yorum Paylaş](#)