

Programming an Expert Advisor
For MetaTrader 4 using
Bollinger Bands, Force Index, and
Stochastic oscillator

Indicators & settings



Bollinger Bands : Period 20, Shift 0, Deviations 2, Apply to close

Bollinger Bands

Parameters Levels Visualization

Period: Shift:

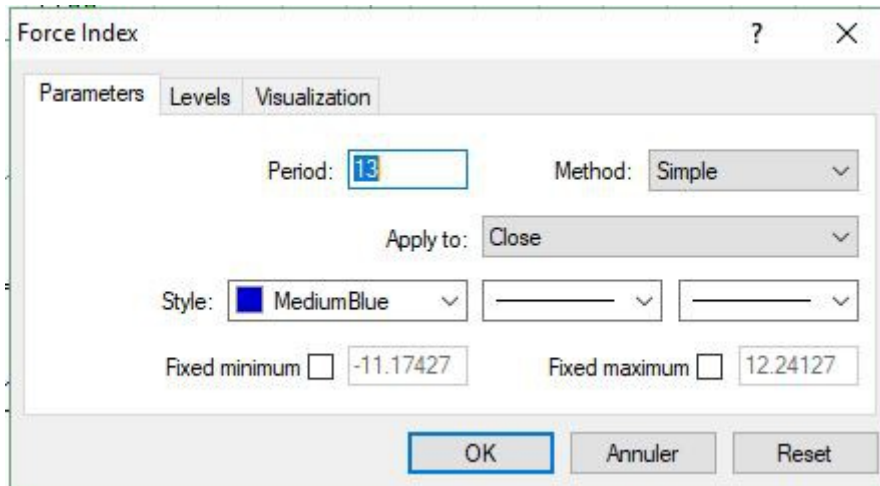
Deviations:

Apply to:

Style:

OK Annuler Reset

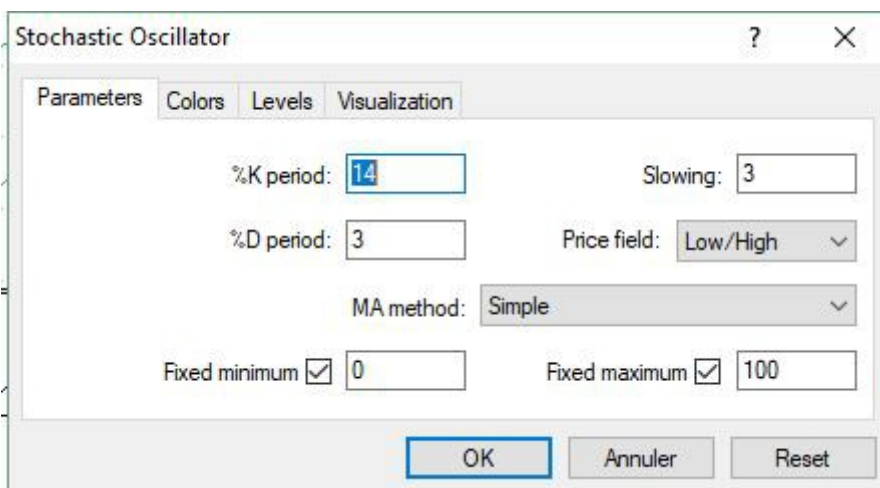
Force Index : Period 13, Method Simple, Apply to close (Levels : 0)



The Force Index dialog box is shown with the 'Parameters' tab selected. The 'Period' is set to 13, 'Method' is Simple, and 'Apply to' is Close. The 'Style' is MediumBlue. The 'Fixed minimum' is -11.17427 and the 'Fixed maximum' is 12.24127. The 'OK' button is highlighted.

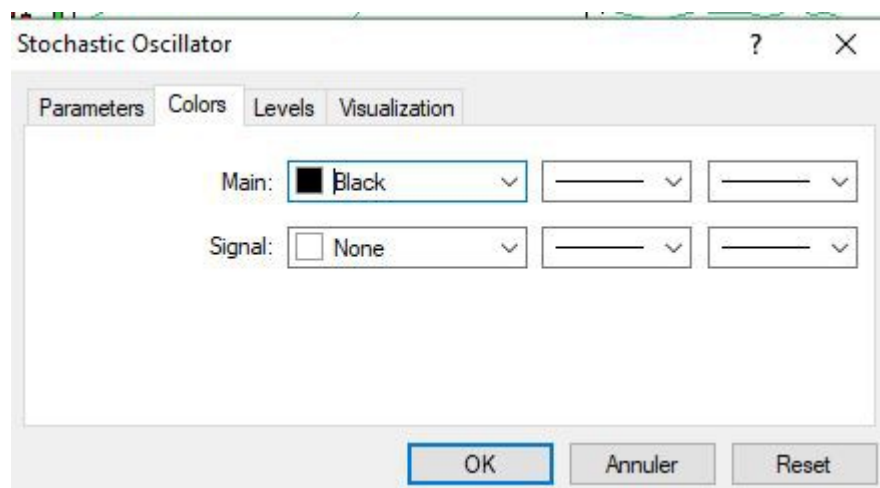
Tab	Parameter	Value
Parameters	Period	13
	Method	Simple
	Apply to	Close
	Style	MediumBlue
	Fixed minimum	-11.17427
Fixed maximum	12.24127	
	Buttons: OK, Annuler, Reset	

Stochastic oscillator : %K period 14, Slowing 3, %D period 3, Price field Low/High, MA method Simple (Levels 40 & 60) – No signal just Main



The Stochastic Oscillator dialog box is shown with the 'Parameters' tab selected. The '%K period' is 14, 'Slowing' is 3, '%D period' is 3, 'Price field' is Low/High, and 'MA method' is Simple. The 'Fixed minimum' is 0 and the 'Fixed maximum' is 100. The 'OK' button is highlighted.

Tab	Parameter	Value
Parameters	%K period	14
	Slowing	3
	%D period	3
	Price field	Low/High
	MA method	Simple
	Fixed minimum	0
Fixed maximum	100	
	Buttons: OK, Annuler, Reset	



The Stochastic Oscillator dialog box is shown with the 'Visualization' tab selected. The 'Main' color is Black and the 'Signal' color is None. The 'OK' button is highlighted.

Tab	Parameter	Value
Visualization	Main	Black
	Signal	None
Buttons: OK, Annuler, Reset		

Trading rules

LONG ENTRY

Conditions :

Force Index is above level 0 and Stochastic oscillator is above level 60

Additional condition :

The price must be inside the bollinger bands.

Do not trade if the entry candle or the previous one has closed above the upper bollinger band or in touch with the upper bollinger band



Exit :

- 1) Take profit when the price touch the upper bollinger band
- 2) If the price don't touch the upper bollinger band, exit when Force Index is below level 0 and Stochastic oscillator is below level 40

New long trade chained :

To make a long trade after a previous long trade closed by the take profit by touch with the upper bollinger band, You have to wait the force Index or the stochastic cross on the other side of the level 0 (Force) or 60 (Stoch), then cross again above level 0 (Force) or 60 (Stoch)



Stop loss :

200 micro-pips

SHORT ENTRY

Conditions :

Force Index is below level 0 and Stochastic oscillator is below level 40

Additional condition :

The price must be inside the bollinger bands.

Do not trade if the entry candle or the previous one has closed below the lower bollinger band or in touch with the lower bollinger band



Exit :

1) Take profit when the price touch the lower bollinger band

2) If the price don't touch the lower bollinger band, exit when Force Index is above level 0 and Stochastic oscillator is above level 60

New short trade chained :

To make a short trade after a previous short trade closed by the take profit by touch with the lower bollinger band, You have to wait the force Index or the stochastic cross on the other side of the level 0 (Force) or 40 (Stoch), then cross again below level 0 (Force) or 40 (Stoch)



Stop loss :

200 micro-pips

Expert Advisor preferences

Default lot size : 1.0

I want to be able to change the lot size in the properties of the EA.

I want the EA to start and stop when I click on the auto-trading button.

Visual illustrations





Thank you very much !