

OrderMixin

Regular Limit Order mixin

Derives

- [Permittable](#)
- [PredicateHelper](#)
- [NonceManager](#)
- [ChainlinkCalculator](#)
- [AmountCalculator](#)
- [EIP712](#)

Functions

remaining

function

remaining (bytes32 orderHash)

external

returns

(uint256) Returns unfilled amount for order. Throws if order does not exist

Parameters:

Name	Type	Description
orderHash	bytes32	

remainingRaw

function

remainingRaw (bytes32 orderHash)

external

returns

(uint256) Returns unfilled amount for order

Parameters:

Name	Type	Description
orderHash	bytes32	

Return Values:

Name	Type	Description
Result	uint256	Unfilled amount of order plus one if order exists. Otherwise 0

remainingsRaw

function

remainingsRaw (bytes32 [] orderHashes)

external

returns

(uint256 []) Same as remainingRaw but for multiple orders

Parameters:

Name	Type	Description
orderHashes	bytes32[]	

simulateCalls

function

simulateCalls (address [] targets , bytes [] data)

external Calls every target with corresponding data. Then reverts with CALL_RESULTS_0101011 where zeroes and ones denote failure or success of the corresponding call

Parameters:

Name	Type	Description
targets	address[]	Array of addresses that will be called
data	bytes[]	Array of data that will be passed to each call

cancelOrder

function

cancelOrder (struct

OrderLib . Order order)

external Cancels order by setting remaining amount to zero

Parameters:

Name	Type	Description
order	struct OrderLib.Order	

fillOrder

function

fillOrder (struct

OrderLib . Order order , bytes signature , bytes interaction , uint256 makingAmount , uint256 takingAmount , uint256 thresholdAmount)

external

returns

(uint256 ,

uint256) Fills an order. If one doesn't exist (first fill) it will be created using order.makerAssetData

Parameters:

Name	Type	Description
order	struct OrderLib.Order	Order quote to fill
signature	bytes	Signature to confirm quote ownership
interaction	bytes	Making amount
makingAmount	uint256	Taking amount
takingAmount	uint256	Specifies maximum allowed takingAmount when takingAmount is zero, otherwise specifies minimum allowed makingAmount
thresholdAmount	uint256	

fillOrderToWithPermit

function

fillOrderToWithPermit (struct

OrderLib . Order order , bytes signature , bytes interaction , uint256 makingAmount , uint256 takingAmount , uint256 thresholdAmount , address target , bytes permit)

external

returns

(uint256 ,

uint256) Same as fillOrder but calls permit first, allowing to approve token spending and make a swap in one transaction. Also allows to specify funds destination instead of msg.sender

See tests for examples

Parameters:

Name	Type	Description
order	struct OrderLib.Order	Order quote to fill signature bytes
Signature	bytes	Signature to confirm quote ownership
interaction	bytes	Making amount
makingAmount	uint256	Taking amount
takingAmount	uint256	Specifies maximum allowed takingAmount when takingAmount is zero, otherwise specifies minimum allowed makingAmount
thresholdAmount	uint256	Address that will receive swap funds
target	address	Should consist of abiencoded token address and encodedIERC20Permit.permit call. permit bytes

fillOrderTo

function

fillOrderTo (struct

OrderLib . Order order_ , bytes signature , bytes interaction , uint256 makingAmount , uint256 takingAmount , uint256 thresholdAmount , address target)

public

returns

(uint256 ,

uint256) Same as fillOrder but allows to specify funds destination instead of msg.sender

Parameters:

Name	Type	Description
order_	struct OrderLib.Order	Order quote to fill signature bytes
Signature	bytes	Signature to confirm quote ownership
interaction	bytes	Making amount
makingAmount	uint256	Taking amount
takingAmount	uint256	Specifies maximum allowed takingAmount when takingAmount is zero, otherwise specifies minimum allowed makingAmount
thresholdAmount	uint256	Address that will receive swap funds
target	address	

checkPredicate

function

checkPredicate (struct

OrderLib . Order order)

public

returns

(bool) Checks order predicate

Parameters:

Name	Type	Description
order	struct OrderLib.Order	

hashOrder

function

hashOrder (struct

OrderLib . Order order)

public

returns

(bytes32)

Parameters:

Name	Type	Description
order	struct OrderLib.Order	

Events

OrderFilled

event

OrderFilled (address maker , bytes32 orderHash , uint256 remaining) Emitted every time order gets filled, including partial fills

Parameters:

Name Type Description maker address orderHash bytes32 remaining uint256

OrderCanceled

event

OrderCanceled (address maker , bytes32 orderHash , uint256 remainingRaw) Emitted when order gets cancelled

Parameters:

Name Type Description maker address orderHash bytes32 remainingRaw uint256

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