

## G*'GRASS

SENSOMATIC OPENING SYSTEM

Electro-mechanical opening of drawers and pot drawers.
Striking a balance between design and functional comfort.



In an ideal situation, the development of new movement systems directly involves the users of the system.
Sensomatic provides the ideal example.


# Comfort with a fascinating twist: it is enough to lightly touch or pull and the drawers will open as if by magic. Fully automatic, electrically powered. 



## SENSOMATIC OPENING SYSTEM

Thanks to the touch-sensitive Sensomatic device all you need is a gentle trigger to automatically open drawers and pot drawers. The action is even, precise and elegant. And yet, Sensomatic is extremely frugal. This applies to power consumption as well as space occupied by the drive unit behind the drawer. This opening system can be activated by a touch anywhere on the front of the drawer, which makes Sensomatic the perfect movement system today, for the functional requirements of tomorrow.

Likewise, Sensomatic offers ideal solutions for the furniture designer: the electro-mechanical opening system allows the use of handle-free surfaces, clean lines and simple elegance of form. However, that is not all. Sensomatic makes sure that each movement offers something for the senses, so that functional precision also adds an emotional ingredient to your lifestyle. And what an ingredient. The furniture becomes an expression of your personality, an element of self-realisation and sensual art.


Two devices in one:
Sensomatic, the electro-mechanical opening system, and Soft-close the mechanical damping system a symbiosis for maximum comfort in all parts of the home.

It has never been easier to open a drawer. And it has never been easier to close a drawer. Sensomatic and Soft-close combine to form a harmonious multifunctional principle. The two systems combine all advantages of handle-free opening with the elegance of damped closing. The combination of these extraordinary functions guarantees operating comfort of the highest level.

It is good that there are things that are made for each other.


How about a single opening system for all applications? We have it here: Sensomatic can be used to open all GRASS systems. Whether we are talking about double-walled drawers or wooden drawers.


Nova Pro


DWD-Dynamic-XP


Dynapro

Versatility clearly increases the efficiency of a system.
The same applies to movement systems.

Sensomatic is a highly efficient system
as it needs only one drive unit for all weight classes and cabinet widths up to $1,200 \mathrm{~mm}$. But that is not all. This electro-mechanical opening system can also be combined with all drawer and slide systems by GRASS. And without having to modify the drawers
in question. Likewise, other items such as wire baskets, refuse separating systems or larder cupboards can be fitted with the Sensomatic system without modifications for comfortable easy opening. In short: Sensomatic is an electro-mechanical multi-talented device. Versatile. Efficient. Compelling.

The Sensomatic opening system is available for GRASS Nova Pro drawer systems, GRASS DWD-Dynamic-XP drawer systems and GRASS Dynapro slide system.

## Sensomatic

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## Standard cabinet with horizontal wooden stretcher

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## Overview


$X=$ min. installation depth
$Y=$ depth of hole pattern
KIB $=$ internal width of cabinet


A = Frame set top/bottom
B = Frame connector
C = Frame sides

## Mounting dimensions

Fixing brackets top/bottom


| Mounting dimensions Nova Pro | X | Y |
| :--- | :--- | :--- |
| Steel back panel | $\mathrm{NL}+18$ | $\mathrm{NL}+3$ |
| Wood back panel | $\mathrm{NL}+20(+1)$ | $\mathrm{NL}+5(+1)$ |

    \(\mathrm{NL}+20(+1) \quad \mathrm{NL}+5(+1)\)
    
Position of front buffer
When fitting the heavy-duty cabinet slide (70 kg)
4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.
$\mathrm{FH}=$ height of front
$\mathrm{FA}=$ front overlap



## Standard cabinet with horizontal wooden stretcher

DWD-Dynamic-XP drawer system

## Overview


$X=$ min. installation depth
$Y=$ depth of hole pattern
$\mathrm{KIB}=$ internal width of cabinet


A $=$ Frame set top $/$ bottom
B = Frame connector
C = Frame sides

## Mounting dimensions

## Fixing brackets top/bottom



| Mounting dimensions DWD-Dynamic-XP | X | Y |
| :--- | :--- | :--- |
| Steel back panel | $\mathrm{NL}+13$ | $\mathrm{NL}-2$ |
| Wood back panel | $\mathrm{NL}+15$ | NL |



## Standard cabinet with horizontal wooden stretcher

Dynapro slide system

## Overview


$X=$ min. installation depth
$Y=$ depth of hole pattern
$\mathrm{KIB}=$ internal width of cabinet

$A=$ Frame set top/bottom
B = Frame connector
C = Frame sides

## Mounting dimensions

## Fixing brackets top/bottom






When fitting the heavy-duty cabinet slide ( 60 kg )
4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.

FH = height of front
FA = front overlap

## Cutting frame side


$T L=$ Length of frame side
All dimensions in millimeters.

## Standard cabinet with horizontal wooden stretcher

for Nova Pro, DWD-Dynamic-XP and Dynapro

## Assembly



Inserting front buffer

Do not drive in or glue front buffers.


## Sensomatic

Standard cabinet with vertical wooden stretcher


Accessories and assembly aides


## Standard cabinet with vertical wooden stretcher

Nova Pro drawer system

## Overview



## Mounting dimensions

Fixing bracket bottom


Rear-mounting fixing bracket (inside mounted)


Rear-mounting fixing bracket (back mounted)


| Mounting dimensions Nova Pro | X (inside) | X (back) | Y |
| :--- | :--- | :--- | :--- |
| Steel back panel | $\mathrm{NL}+18$ | $\mathrm{NL}+23$ | $\mathrm{NL}+3$ |
| Wood back panel | $\mathrm{NL}+20(+1)$ | $\mathrm{NL}+26$ | $\mathrm{NL}+5(+1)$ |



## Standard cabinet with vertical wooden stretcher

DWD-Dynamic-XP drawer system

## Overview



Mounting dimensions

Fixing bracket bottom


Rear-mounting fixing bracket (inside mounted)


Rear-mounting fixing bracket (back mounted)


| Mounting dimensions DWD-Dynamic-XP | X (inside) | $\mathbf{X}$ (back) | $\mathbf{Y}$ |
| :--- | :--- | :--- | :--- |
| Steel back panel | $\mathrm{NL}+13$ | $\mathrm{NL}+18$ | $\mathrm{NL}-2$ |
| Wood back panel | $\mathrm{NL}+15$ | $\mathrm{NL}+20$ | NL |

$N L=$ nominal length of cabinet slide


KIH $=$ internal height of cabinet
$T L=$ length of frame side
KIB = internal width of cabinet

Position of front buffer


When fitting the heavy-duty cabinet slide ( 60 kg and 80 kg ), 4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.

FH = height of front
FA = front overlap

Cutting frame side



## Standard cabinet with vertical wooden stretcher

Dynapro slide-system

## Overview



Mounting dimensions

Fixing bracket bottom


Rear-mounting fixing bracket (inside mounted)


Rear-mounting fixing bracket (back mounted)


| Mounting dimensions Dynapro | X (inside) | X (back) | Y |
| :--- | :--- | :--- | :--- |
| Wood back panel | NL + 15 | NL + 20 | NL |

Position opening unit Dynapro
inside mounted


KIH = internal height of cabinet
$T L=$ length of frame side
KIB $=$ internal width of cabinet

Position of front buffer



When fitting the heavy-duty cabinet slide ( 60 kg ), 4 No . front buffers have to be inserted into the front. Do not drive in or glue front buffers.
FH = height of front
$\mathrm{FA}=$ front overlap

## Cutting frame side




## Standard cabinet with vertical wooden stretcher

for Nova Pro, DWD-Dynamic-XP and Dynapro

## Assembly




Inserting front buffer

Do not drive in or glue front buffers.


## Sensomatic

Single drawer with overhead frame set mounting


Accessories and assembly aides


## Single drawer with overhead frame set mounting

Nova Pro drawer system

## Overview



## Mounting dimensions

## Height 170



Back wall cabling


| Mounting dimensions Nova Pro | X | Y |
| :--- | :--- | :--- |
| Steel back panel | $\mathrm{NL}+18$ | $\mathrm{NL}+3$ |
| Wood back panel | $\mathrm{NL}+20(+1)$ | $\mathrm{NL}+5(+1)$ |




## Single drawer with overhead frame set mounting

DWD-Dynamic-XP drawer system

## Overview



## Mounting dimensions

## Height 170



Back wall cabling


| Mounting dimensions DWD-Dynamic-XP | X | Y |
| :--- | :--- | :--- |
| Steel back panel | NL + 13 | NL - 2 |
| Wood back panel | $\mathrm{NL}+15$ | NL |

$N L=$ nominal length of cabinet slide


Height 120

$\mathrm{KIB}=$ internal width of cabinet
When fitting the heavy-duty cabinet slide ( 60 kg and 80 kg ), 4 No. front buffers have to be inserted into the front.

Do not drive in or glue front buffers.

FH = height of front
$F A=$ front overlap



## Single drawer with overhead frame set mounting

Dynapro slide system

## Overview



## Mounting dimensions

## Height 170



Height 120


Back wall cabling




KIB $=$ internal width of cabinet


When fitting the heavy-duty cabinet slide ( 60 kg ),
4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.

FH = height of front
$F A=$ front overlap

## Single drawer with overhead frame set mounting

for Nova Pro, DWD-Dynamic-XP and Dynapro

## Assembly




Inserting front buffer

Do not drive in or glue front buffers.


## Sensomatic

Single drawer with back panel frame set mounting


Accessories and assembly aides
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## Single drawer with back panel frame set mounting

Nova Pro drawer system

## Overview



## Mounting dimensions



Mounting dimensions Nova Pro X
$N L=$ nominal length of cabinet slide

| Steel back panel | $\mathrm{NL}+18$ |
| :--- | :--- |
| Wood back panel | $\mathrm{NL}+20(+1)$ |


$\mathrm{KIB}=$ internal width of cabinet


When fitting the heavy-duty cabinet slide (70 kg)
4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.

FH = height of front
$F A=$ front overlap

## Single drawer with back panel frame set mounting

DWD-Dynamic-XP drawer system

## Overview



## Mounting dimensions



| Steel back panel | NL + 13 |
| :--- | :--- |
| Wood back panel | $\mathrm{NL}+15$ |


$\mathrm{KIB}=$ internal width of cabinet


When fitting the heavy-duty cabinet slide ( 60 kg and 80 kg )
4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.

FH = height of front
$F A=$ front overlap

## Single drawer with back panel frame set mounting

Dynapro slide system

## Overview



## Mounting dimensions




KIB $=$ internal width of cabinet


When fitting the heavy-duty cabinet slide ( 60 kg )
4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers

FH = height of front
FA $=$ front overlap

## Single drawer with back panel frame set mounting

for Nova Pro, DWD-Dynamic-XP and Dynapro

## Assembling



## Wiring



Do not drive in or glue front buffers.


## Sensomatic

Sink cabinet with bottom panel frame set mounting


Accessories and assembly aides


## Sink cabinet with bottom panel frame set mounting

Nova Pro drawer system

## Overview


$X=$ min. installation depth
$Y=$ depth of hole pattern
$Z=$ depth of hole pattern for sink drawer KIB $=$ internal width of cabinet

## Mounting dimensions



## Base mounting

## Sink mounting




| Mounting dimensions Nova Pro | X | Y | Z |
| :--- | :--- | :--- | :--- |
| Steel back panel | $\mathrm{NL}+18$ | $\mathrm{NL}+3$ | - |
| Wood back panel | $\mathrm{NL}+20(+1)$ | $\mathrm{NL}+5(+1)$ | $\mathrm{NL}(\mathrm{A})-\mathrm{NL}(\mathrm{B})+9$ |

[^0]

KIB $=$ internal width of cabinet
KIB (min. 262)



When fitting the heavy-duty cabinet slide (70 kg)
4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.
FH = height of front

FA = front overlap

## Sink cabinet with bottom panel frame set mounting

DWD-Dynamic-XP drawer system

## Overview


$X=$ min. installation depth
$Y=$ depth of hole pattern
$Z=$ depth of hole pattern for sink drawer KIB $=$ internal width of cabinet

## Mounting dimensions



## Base mounting

## Sink mounting



## Mounting dimensions DWD-Dynamic-XP

Steel back panel $\mathrm{NL}+13$ X NL - 2
NL


Wood back panel NL + 15




Base frame set


Y

- $\quad$ NL (A) - NL (B) +9

$\mathrm{KIB}=$ internal width of cabinet
When fitting the heavy-duty cabinet slide ( 60 kg and 80 kg )
4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.
FH = height of front
$\mathrm{FA}=$ front overlap


## Sink cabinet with bottom panel frame set mounting

Dynapro slide system

## Overview


$X=$ min. installation depth
$Y=$ depth of hole pattern
$Z=$ depth of hole pattern for sink drawer KIB $=$ internal width of cabinet

## Mounting dimensions



Base mounting

## Sink mounting



| Assembly dimensions Dynapro | X | $\mathbf{Y}$ | $\mathbf{X}$ |
| :--- | :--- | :--- | :--- |
| Wood back panel | $N L+15$ | $N L$ | $N L(A)-N L(B)+9$ |

NL = nominal length of cabinet slide


Sink cabinet with bottom panel frame set mounting
Nova Pro, DWD-Dynamic-XP and Dynapro

## Assembly




## Sensomatic

Sink cabinet with side panel frame set mounting


Example for ordering:
The following items are needed for a cabinet with 2 drawers:Opening units: 3 No.
Base frame set: 1 No
Side frame set: 2 No.
Power supply unit: 1 No.

7
8 Mains cables: 1 No.
9 Front buffers: 8 No.
Opening unit

|  | Item No. | Item No. |
| :---: | :---: | :---: |
| for Nova Pro and Dynapro | F121100268217 | F121100268607 |
| for DWD-Dynamic-XP | F121100409217 | F121100409607 |
|  | PU 50 | PU 10 |
| $50=50$ pieces, PU $10=$ | ividually packaged |  |




ower supply unit


4-way-adapter


PU $10=10$ pieces

Mains cables


PU $10=10$ pieces


PU $10=10$ pieces

## Sink cabinet with side panel frame set mounting

Nova Pro drawer system

## Overview


$X=$ min. installation depth
$Y=$ depth of hole pattern
$Z=$ depth of hole pattern
for side frame set
KIB $=$ internal width of cabinet

## Mounting dimensions

Base mounting


Side frame set mounting left


Side frame set mounting right



| Mounting dimensions Nova Pro | X | Y | Z |
| :--- | :--- | :--- | :--- |
| Steel back panel | $\mathrm{NL}+23$ | $\mathrm{NL}+3$ | $\mathrm{NL}-19$ |
| Wood back panel | $\mathrm{NL}+26$ | $\mathrm{NL}+5(+1)$ | $\mathrm{NL}-16$ |

$N L=$ nominal length of cabinet slide NL 300 is not possible.


Side panel assembly


If $\mathrm{LBH}<59$ :

$\mathrm{KIB}=$ internal width of cabinet


When fitting the heavy-duty cabinet slide (70 kg)
4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.

FH = height of front
$\mathrm{FA}=$ front overlap

## Sink cabinet with side panel frame set mounting

DWD-Dynamic-XP drawer system

## Overview


$X=$ min. installation depth
$Y=$ depth of hole pattern
$Z=$ depth of hole pattern
for side frame set
KIB $=$ internal width of cabinet

## Mounting dimensions

Base mounting


Side frame set mounting left


Side frame set mounting right



| Mounting dimensions DWD-Dynamic-XP | X | Y | Z |
| :--- | :--- | :--- | :--- |
| Steel back panel | $\mathrm{NL}+18$ | $\mathrm{NL}-2$ | $\mathrm{NL}-24$ |
| Wood back panel | $\mathrm{NL}+20$ | NL | $\mathrm{NL}-22$ |

NL $=$ nominal length of cabinet slide
NL 275 and NL $450(60 \mathrm{~kg})$ are not possible.

$\mathrm{KIB}=$ internal width of cabinet


When fitting the heavy-duty cabinet slide ( 60 kg and 80 kg ) 4 No. front buffers have to be inserted into the front.
Do not drive in or glue front buffers.

FH = height of front
$\mathrm{FA}=$ front overlap

Sink cabinet with side panel frame set mounting
Nova Pro, DWD-Dynamic-XP and Dynapro

## Assembly




Inserting front buffer

Do not drive in or glue front buffers.


## Dismantling

## Disconnect the power before fitting or dismantling the system.

Dismantling opening unit


Dismantling frame sides

1. Insert screwdriver into notches and swivel inwards.
2. Remove frame sides.


## Dismantle synchronisation cable

1. Remove opening units from frame sides.
2. Use a pointed object (e.g. a pen or little screw driver) to push in white spring and take out cable.

## Adjustment

The cabinet must be aligned horizontally.


## Accessories



|  | Item No. |
| :--- | :--- |
| 10 m | F121100287207 |
|  | PU 10 |

Up to three drive units can be activated at the same time if they are connected using the synchronisation cable.



Opening unit


## 4-way-adapter



|  | Item No. |
| :--- | :--- |
| 4-way-adapter | F121100293207 |
|  | PU 10 |

PU $10=10$ pieces

Front-base connector for wide drawers

|  | Item No. |
| :--- | :--- |
| 4-way-adapter | $26744-38$ |
|  | PU 10 |

PU $10=10$ pieces, PU $100=100$ pieces


For a cabinet width of 900 mm and over we recommend the use of
a front/base connector. Where this strong front connection is used it is possible to increase the trigger range also for tall fronts.

## $X=$ front overlay at bottom

Drilling template

|  | Item No. |
| :--- | :--- |
| Drilling template | F146109850299 |
|  | PU 10 |

PU $10=10$ pieces


## Technical Information

## General advice

Provide switched sockets.

Disconnect the power before fitting or dismantling the system.

For cabinet widths of 1200 mm and over we recommend the use of 2 No. drive units.
These can be activated simultaneously with the help of the synchronisation cable.

Important: do not insert screws in the area of the drive lever.

With each power supply unit it is possible to operate 30 drive units.

## Technical Data

| Area of application | Drawer systems | Nova Pro |
| :--- | :--- | :--- |
|  |  | DWD-Dynamic-XP |
|  | Slide systems | Dynapro |
|  | only in dry, closed rooms |  |
| Power supply unit | Power supply | 100 to 240 V |
|  | 50 to 60 Hz |  |
| Max. power output | 230 W |  |
| Opening unit | Supply voltage | 24 V |
| Operating conditions | Temperature | 0 to $50{ }^{\circ} \mathrm{C}$ |
|  | Humidity | $15 \%$ to $90 \%$ |

## GTEPASS

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[^0]:    NL = nominal length of cabinet slide

