

KNX Technical Manual

Busch-Presence detector KNX / Busch-Watchdog Sky KNX

Busch-Presence detector mini
KNX

6131/20-xxx-500



Busch-Presence detector mini,
premium, KNX

6131/21-xxx-500



Busch-Presence detector KNX

6131/30-xxx-500



Busch-Presence detector
Premium KNX

6131/31-xxx-500

Busch-Watchdog Sky KNX

6131/40-24-500



Busch-Presence detector
Corridor KNX

6131/50-xxx-500

Busch-Presence detector
Corridor Premium KNX

6131/51-xxx-500

ABB i-bus® KNX

Movement and Presence Detectors

- = Function is supported
- = Function is not supported

| | Mini Basic 6131/20-xxx-500 | Mini Premium 6131/21-xxx-500 | Basic 6131/30-xxx-500 | Premium 6131/31-xxx-500 | Sky 6131/40-xxx-500 | Corridor Basic 6131/50-xxx-500 | Corridor Premium 6131/51-xxx-500 |
|--|-----------------------------------|--|-----------------------------------|--|---|---|---|
| General | | | | | | | |
| Supply voltage | KNX | KNX | KNX | KNX | KNX | KNX | KNX |
| Type of installation | flush-mounted/ surface-mounted | flush-mounted/ surface-mounted | flush-mounted/ surface-mounted | flush-mounted/ surface-mounted | flush-mounted/ surface-mounted | flush-mounted/ surface-mounted | flush-mounted/ surface-mounted |
| Programming button accessible from outside | ■ | ■ | ■ | ■ | - | ■ | ■ |
| Detection range diameter (sitting / walking person) | | | | | | Corridor: only walking person | Corridor: only walking person |
| Installation height 2.5 m | Max. 5.0 m/ 6.5 m | Max. 5.0 m/ 6.5 m | Max. 8.0 m/ 10.0 m | Max. 8.0 m/ 10.0 m | - | Frontal: max. 18 x 2,5 m; Lateral: max. 24 x 2,5 m | Frontal: max. 18 x 2,5 m; Lateral: max. 24 x 2,5 m |
| Installation height 3.0 m | Max. 6.5 m/ 8.0 m | Max. 6.5 m/ 8.0 m | Max. 10.0 m/ 12.0 m | Max. 10.0 m/ 12.0 m | - | Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m | Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m |
| Installation height 4.0 m | Max. 9.0 m/ 10.5 m | Max. 9.0 m/ 10.5 m | Max. 14.0 m/ 16.0 m | Max. 14.0 m/ 16.0 m | - | Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m | Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m |
| Installation height 6.0 m | - | - | - | - | Max. 18.0 m | - | - |
| Installation height 12.0 m | - | - | - | - | Max. 24.0 m | - | - |
| Number of channels | | | | | | | |
| Movement detector | 2 | 4 in total | 2 | 4 in total | 2 | 2 | 4 in total |
| Constant light switch | 2 | 4 in total | 2 | 4 in total | 2 | 2 | 4 in total |
| Combination | 1 x each | 4 in total | 1 x each | 4 in total | 1 x each | 1 x each | 4 in total |
| Constant light controller | - | 2 | - | 2 | - | - | 2 |
| Heating/cooling/ventilation systems (HVAC) | - | 1 | - | 1 | - | - | 1 |
| Infrared receiver, can be operated via IR remote control 6010-25 | - | 10 button pairs + 4 single buttons/ 24 single buttons | - | 10 button pairs + 4 single buttons/ 24 single buttons | (only red for activation of the programming mode) | - | 10 button pairs + 4 single buttons/ 24 single buttons |
| Two power-off stages | | | | | | | |
| Movement detector | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Constant light control | - | ■ | - | ■ | - | - | ■ |

ABB i-bus® KNX

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| | Mini Basic 6131/20-xxx-500 | Mini Premium 6131/21-xxx-500 | Basic 6131/30-xxx-500 | Premium 6131/31-xxx-500 | Sky 6131/40-xxx-500 | Corridor Basic 6131/50-xxx-500 | Corridor Premium 6131/51-xxx-500 |
|---|-------------------------------|---------------------------------|--------------------------|----------------------------|------------------------|-----------------------------------|-------------------------------------|
| Application | | | | | | | |
| Surveillance detector | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Movement detector | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Presence detector | ■ | ■ | ■ | ■ | - | ■ | ■ |
| Constant light switch | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Controller independent of movement | - | ■ | - | ■ | - | - | ■ |
| Various | | | | | | | |
| Integrated object room temperature controller with temperature sensor | - | 1 | - | 1 | - | - | 1 |
| Brightness measurement | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Calibration of brightness sensor via ETS group objects | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Programming mode can be activated via IR remote control 6010-25 | - | ■ | - | ■ | ■ | - | ■ |
| Programming LED can be activated via ETS group objects | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Number of logic functions (4 different ones) | - | 5 | - | 5 | - | - | 5 |