

KNOXBOX – Adaptation of ABB Knox to ABB GKey

1 Knox process protection (without safety interlock)

LKE order numbers:

2018121-02: Exchange kit containing GKey, Tina2B incorporated, 5-pin connecting cable

2018121-03: LKE PC sheet adaptation

2018121-04: Manual actuator

OLD:



NEW:



2 Knox personal protection (with safety interlock)

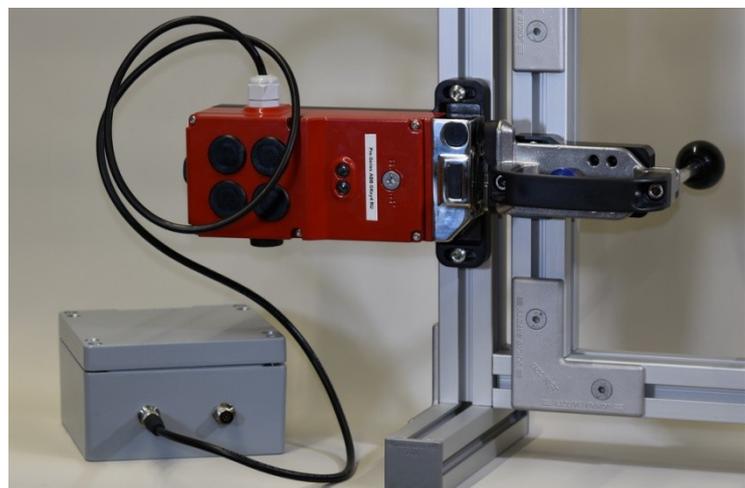
LKE order numbers:

2018121-01: Exchange kit containing GKey, 2m 8-pin connecting cable and LKE KnoxBox

2018121-05: LKE KnoxBox – Adapter without GKey, pluggable without GKey

2018121-03: LKE PC sheet adaptation

2018121-04: Manual actuator



Compatibility table

Existing KNOX (frame member)	electrically compatible	mechanically compatible with ABB aluminium profiles	mechanically compatible with other protection devices
Knox 2X v2 2TLA020105R2300	yes	yes, check space requirement, may need LKE PC sheet	limited, check space requirement, adapt mounting and cutouts for bolt
Knox 2A v2 2TLA020105R2200	yes, with external KnoxBox	yes, check space requirement, may need LKE PC sheet	limited, check space requirement, adapt mounting and cutouts for bolt

Wiring for all components has plugs attached so that no electrical work is needed. ABB safety fences must be adapted to have a cutout for the emergency release and the manual actuator. When mounting on other safety fences, additional adaptations may possibly be needed using mechanical means.

Both variants are suitable both for relay switching, suitable with Vital or remote control, as well as for direct connection to a Pluto.

In terms of safety, PL e is achieved with the feedback locked. The control of the interlock achieves PL d.

Details of the features of the GKey can be obtained from the GKey product documentation from ABB.

(<https://new.abb.com/low-voltage/products/safety-products/safety-sensors-switches-and-locks/gkey>)

Technical data

LKE KnoxBox

Size [w x h x d]	160 mm x 160 mm x 100 mm
Nominal voltage	24 VDC
Weight	1.9 kg
Performance Level	In combination with Pluto or Vital PL d

For data on ABB components, please refer to the original documents.

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