

Fortress Interlocks LTD Sistema Library FAQ

I have a very long part number which includes multiple items and I cannot find the part number in the list?

We have broken down our library into product modules, this is due to the configurable system we use for our product numbering system. Please see Fortress documentation or contact us for guidance on part numbers.

In order to use the Fortress Sistema Library, please select the safety relevant modules from your part number to add to your calculations.

Where are the Keys and Lock Barrels?

Each item within the library is tested with associated heads, actuators and locks (where applicable) and as such those products are not listed separately. The B10d (and therefore PFHd) values listed for each LOK and STOP module includes keys and lock barrels.

Where are the Heads?

Each item within the library is tested with associated heads, actuators and locks (where applicable) and as such those products are not listed separately. The B10d (and therefore PFHd) values listed for each LOK and STOP module includes heads.

Where are the Actuators?

Each item within the library is tested with associated heads, actuators and locks (where applicable) and as such those products are not listed separately. The B10d (and therefore PFHd) values listed for each LOK and STOP module includes actuators.

Why are no mechanical only products listed?

As mechanical only products are not part of Rsrp/cs (risk reduction) as per 13849-1, this puts them outside of the functional safety calculations carried out by Sistema.

Why have you included E-Stops?

Although emergency stops are not classified as a risk-reduction measure we have included these for completeness as they are built into some units.

Why are there only two types of tGard listed?

The listed tGard modules include all guard locking and position monitoring switch configurations, all other changes will not affect the safety calculation. The only difference is the addition of an E-Stop.

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Example Part Number

The screenshot displays the Fortress Interlocks software interface. At the top, a part number **EI4-A6-EKR31-SR411-N2UBWYN-PF05** is shown with brackets identifying its components: **Head** (EI4-A6), **Lock Barrel** (SR411), **LOK Switch** (EKR31), **E-stop** (N2UBWYN), and **Quick disconnects** (PF05). A legend indicates that components in green are 'Included in Sistema' and those in blue are 'Not Included in Sistema'. The interface includes a toolbar with options like 'Create New Library', 'Add local Library...', 'Add Network Library...', 'Close Library', 'Lock Library...', and 'Libr...'. Below the toolbar are three status bars: **SB (26)**, **BL (0)**, and **EL (0)**. A 'Subsystems' list is shown with various modules, some highlighted in green to match the part number components: amGardpro LOK ASI module, amGardpro LOK (e.g. SLxxx, LLxxx, SRxxx, LRxxx, SExxx, LExxx) excl. 8xxx, amGardpro STOP (STxxx) excl. ST8xx, amGardpro STOP ASI (ST8xx) module, amGardpro Non-contact Sensor (Magnetic), amGardpro Non-contact Sensor (RFID), amGardpro Profinet-Profsafe interface, amGard ASI slave module, amGardpro Option Pod K, amGardpro Slimline LOK solenoid controlled guard interlock, amGardpro Slimline STOP guard interlock, amGard NCS coded non contact switch (Hall effect sensor), amGard ProNet ethernet IP, amGard S40 LOK (e.g. S40SLxxx, S40SRxxx), amGard S40 STOP (e.g. S40STxxx), amGard E-Stop, eGard Stack up to 10 modules (without estop), eGard Stack up to 10 modules (with e-stop), mGard mechanical systems, incorporating doorlocks and/or key exchange, using 20-63A switch, mGard mechanical systems, incorporating doorlocks and/or key exchange, using 150A switch, mGard mechanical SS solenoid control systems, incorporating doorlocks and/or key exchange, using 20-63A switch, mGard BML bolt module using position monitoring switch, ncGard ATOM RFID High Coded Solenoid Interlocking Device, tGard guard locking and position monitoring switches (without e-stop), tGard guard locking and position monitoring switches (with e-stop), and Single Channel Safety Pushbuttons.