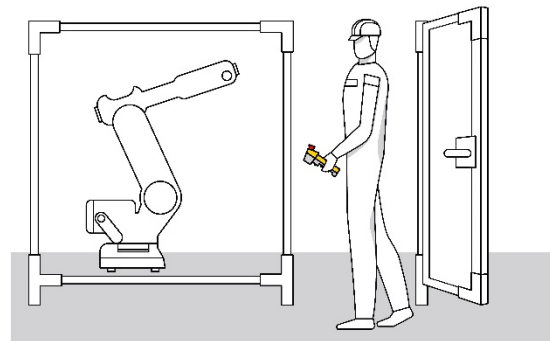


SAFETY PRODUCTS

Hold-to-run function for inspection

Three Position Enabling Devices, Sentry and AFS Safety Contactors

- **Safe inspection**
- **Avoid unnecessary process stops**
- **Ergonomic, flexible and suitable for Food and Beverage applications**

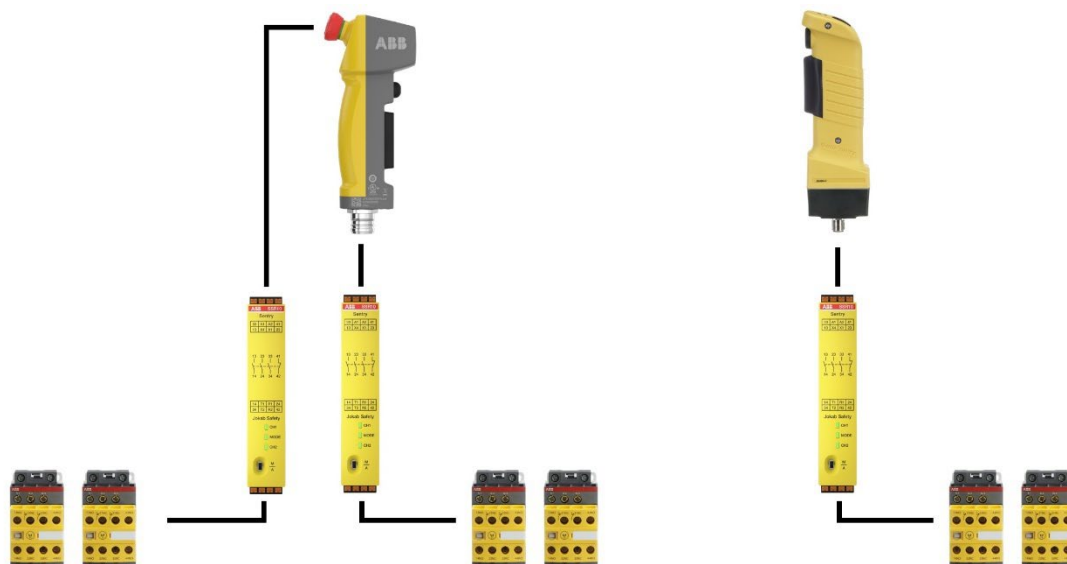


Application

JSHD4 and HD5 are three-position devices (also called hold-to-run or enabling devices). The key function of the device is enabled through the large black button. Pressed to the middle position it allows the machine to run, while releasing or fully compressing the button stops the machine. Three-position devices are typically used in robot cells during maintenance or reprogramming of the robot. They allow the operator to safely inspect the manufacturing process without completely stopping the machine. Sentry safety relay is used to monitor the three-position device and controlling/monitoring the two redundant contactors that cuts the power to the machine.

Functional safety level

Both solutions fulfill up to Category 4, PL e according to EN ISO 13849-1:2015 and up to SIL3 according to EN 62061:2005.





JSHD4 and HD5



JSD TK cable



M12 cable



SSR10

AFS Safety
Contactor**Ordering information JSHD4. Need top and bottom part for complete unit.**

Description	Order code
JSHD4-2 Top part with LEDs, front and top buttons	2TLA020006R2200
AD Bottom part with M12-8 connector	2TLA020005R1300

Additional information can be found in the [JSHD4 manual](#) and [JSHD4 data sheet](#).

Ordering Information Cables – choose suitable cable length.

Description	Connector	Length	Order code
M12-C63 Single Ended Cable	M12-8 (Female)	6m	2TLA020056R3000
M12-C103 Single Ended Cable	M12-8 (Female)	10m	2TLA020056R4000
M12-C203 Single Ended Cable	M12-8 (Female)	20m	2TLA020056R4100

Ordering Information HD5.

Description	Order code
HD5-S-111 with emergency stop, top two buttons, flashlight, home position and motion sensor	2TLA023001R0100

Additional information can be found in the [HD5 manual](#) and [HD5 data sheet](#).

Ordering Information Cables for HD5 - choose suitable cable length.

Description	Connector	Length	Order code
JSD-TK5-19 Single Ended Cable	M23-19 (Female)	5m	2TLA930057R0000
JSD-TK10-19 Single Ended Cable	M23-19 (Female)	10m	2TLA930058R0000

Ordering Information Sentry Safety Relay.

Description	Order code
SSR10 - Single function safety relay with screw terminals	2TLA010050R0000
SSR10P - Single function safety relay with push-in terminals	2TLA010050R0001

Additional information can be found in the [Sentry Safety Relay](#) data sheet. Wiring can be found in the [Sentry Wiring Examples](#).

Safety Contactors

The AFS contactors are dedicated for safety applications. See [AFS contactors data sheet](#) for range and selection.

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