

Safety node

Urax-E1



Approvals:

TÜV Nord  

Application:

Adapts two-hand devices to the AS-i bus

Features:

Handles two-hand devices with two channels

Simultaneity requirement

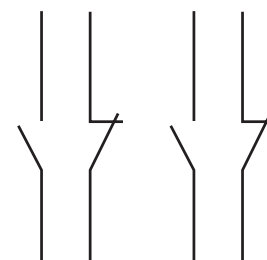
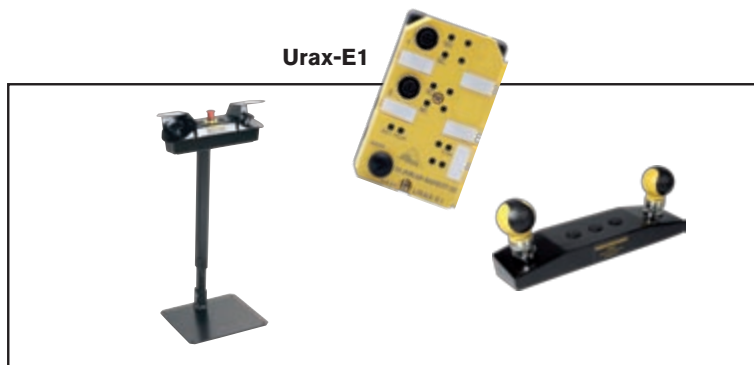
Adaptation device for two-hand stations for the AS-i bus

Urax-E1 is a dual channel safety input slave to the AS-i bus, which is designed to connect the two-hand station in compliance with EN 574 model IIIC. Connections can be made so that the safety node with two-hand station complies with PL e EN ISO 13849-1.

Urax-E1 has LED indicators for all channels and can be addressed on the bus via the ADDR contact.



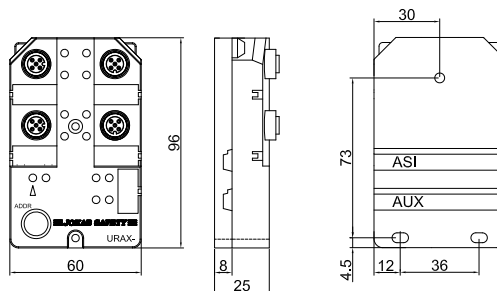
Urax-E1



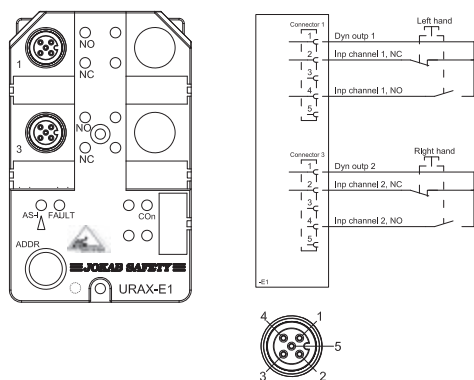
Technical data – Urax-E1	
Manufacturer:	ABB AB/Jokab Safety, Sweden
Part number/Ordering data: Urax-E1	2TLJ020072R0600
Colour	Yellow and black
Weight	150 g
AS-i data AS-i profile Urax-C1/C1R Addressing Slave address upon delivery	S-0.B.0 Jack contact 0
Voltage supply Voltage Total current consumption AS-i	AS-i yellow cable, 30 V DC (26.5 – 31.6) <150 mA
Output (non-safe) Output voltage Current	24V DC (AUX) 700
Reaction time Reaction time (off)*	12 ms (excluding sensors and other peripheral components)

Enclosure Enclosure protection class Ambient temperature Enclosure dimensions	IP67 –25...+65°C 96x60x25 (HxWxD)
Safety/Harmonised standards IEC/EN 61508-1..7 EN 62061 EN ISO 13849-1 EN 954-1 Certification	SIL3, PFD _{avr} : 1.5x10 ⁻⁴ , PFH: 1.7x10 ⁻⁹ , Share of SIL3: 15 % SIL3 Performance Level PL _e , Category 4 MTTF _d : high Category 4

*NOTE: The above reaction time refers only to the Urax device. In calculating the total reaction time, all the component parts in the safety chain must be taken into account.



Connections for Urax-E1



Inputs for two-hand stations

Urax-E1 has two inputs for each hand, one for closing and one for opening contact. For safe activation (generating safety code), all four inputs are required to be enabled within 0.5 seconds. All inputs are monitored, and if Urax is disabled (stops generating safety code) this requires that all four inputs are disabled before a restart is possible. ("Open" condition for a opening (NC) contact is closed contact, and "Open" condition for a closing (NO) contact is open contact.)