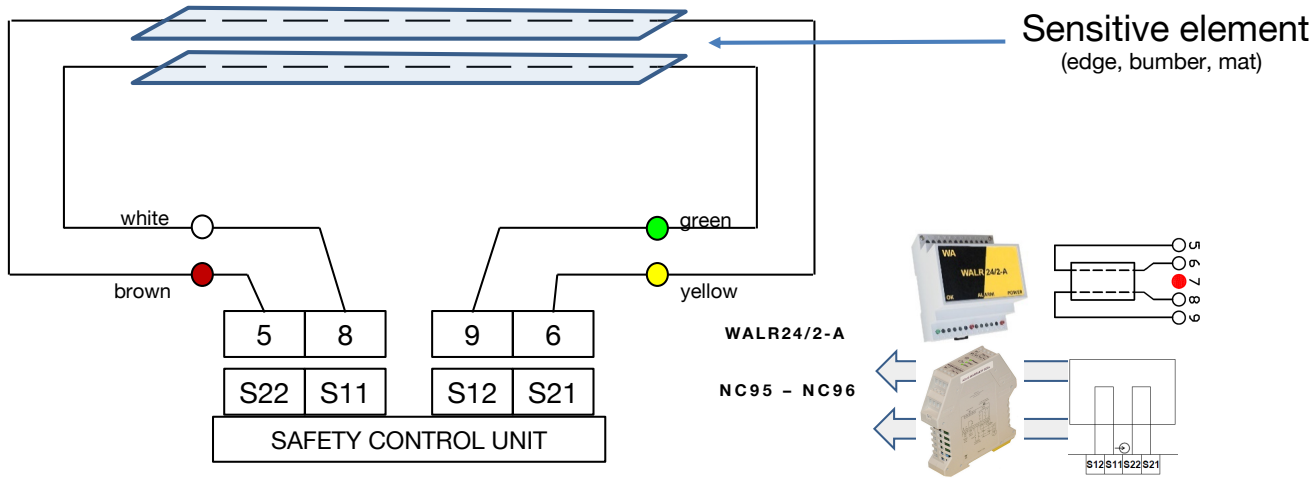
WIDE-DOC-PRINCIPIO-01 / EN / R1 - EDITORIAL REVIEW

Safety mats, edges and bumpers

Operating principle

and connection to the safety control units

Source diagram reproduced unchanged; text rebuilt as selectable text. Model names are retained from the source; no broader applicability is claimed.

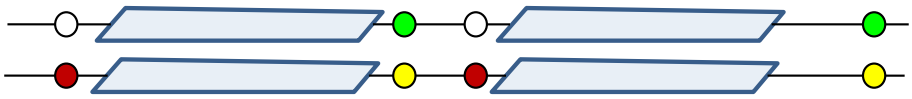


The continuity of the sensitive elements is monitored by checking the electrical continuity between the conductors respectively **White-Green** and **Brown-Yellow**.

If an interruption occurs between the **White-Green** and/or **Brown-Yellow** conductors, the safety control unit reacts by opening the safety outputs.

The sensitive element (edge, bumper, mat) behaves like a normally open contact. The pressure of the sensitive element causes a closing of the contact with consequent closure of the circuit between ALL the 4 conductors.

It is possible to put multiple elements in cascade using the following scheme:



USE NOTE

This editorial revision retains the source data. It does not replace applicable manuals or safety-function verification.

Editorial note: compared with the source, the second sentence now states the Brown-Yellow pair, consistent with the diagram; the control unit reaction is described as opening the safety outputs. Model names WALR24/2-A and NC95 – NC96 in the diagram are those of the source; the Italian NC96 manual rev.4_03/25 is titled «NC96 MAT». No other equivalence between models is stated.

SOURCE Operating principle and connection to the safety control units - WIDE (PDF 2024)