Small switch with a big effect

Reset switch facilitates work for maintenance technicians.

When nodes are replaced in existing field bus and Industrial Ethernet networks, the new device must be integrated into the existing infrastructure. With Profinet this can be easily done using neighborhood detection: The device finds out which devices are directly connected to it, physically speaking.

With the help of this information it can also logically detect and adopt the position of the replaced device. Once this information has been determined, it is retained. Something that is very helpful in normal circumstances can be a problem for service technicians.

Often the error is located by replacing components. If the error still remains, the component is swapped back.

And what happens to the replacement rotary encoder now? As the neighborhood detection only works once, the replacement encoder can no longer be freely used. It must be reset to the delivery condition, so that it can once again determine its environment through neighborhood detection.

Previously this required a programming device together with the relevant cabling, as well as the know-how for resetting the rotary encoder to its default address.

TR-Electronic offers an optional reset switch for the CEV58 series with Profinet and axial connections. This makes resetting much easier for the maintenance technician: He disconnects the Profinet cables, but the supply voltage remains connected. He opens the cover of the reset switch and resets the rotary encoder to its delivery condition by pressing the switch. The device is now ready for a new point of use. Without the need for a programming device or any special knowledge in handling it.

The reset switch can be ordered as an option for devices in the CEV58 series with Profinet and axial connections. The reset switch is protected against unintended actuation by a tight screw connection.

Standard troubleshooting on the machine:

1. Service technician suspects that the rotary encoder is defective
2. He has a new one with him and replaces the encoder
3. The encoder obtains its ID in the Profinet network via neighborhood detection
4. Machine error is still present
5. Encoder is swapped back
6. The new encoder now no longer has the default address, i.e. it cannot be used for a new replacement with neighborhood detection

Previously:

1. Supply encoder with power (usually far away from the point of use)
2. Connect encoder to a programming device
3. Reset address with programming device

Prerequisite:

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- Technician requires power supply with M12 plug, to connect the encoder
- Technician requires programming device
- Technician must be able to operate programming device and know how to reset the address.

With the reset switch:

1. Remove Profinet cable in installed state
2. Open screw connection, press reset switch
3. Close screw connection
4. Swap encoder back; the new encoder is ready for use in the next location

Prerequisite:

- Technician must be aware of the reset switch and be able to press it.

Additional information:
User manual with description on reset button (p 76)
http://www.tr-electronic.com/f/TR-ECE-BA-DGB-0088