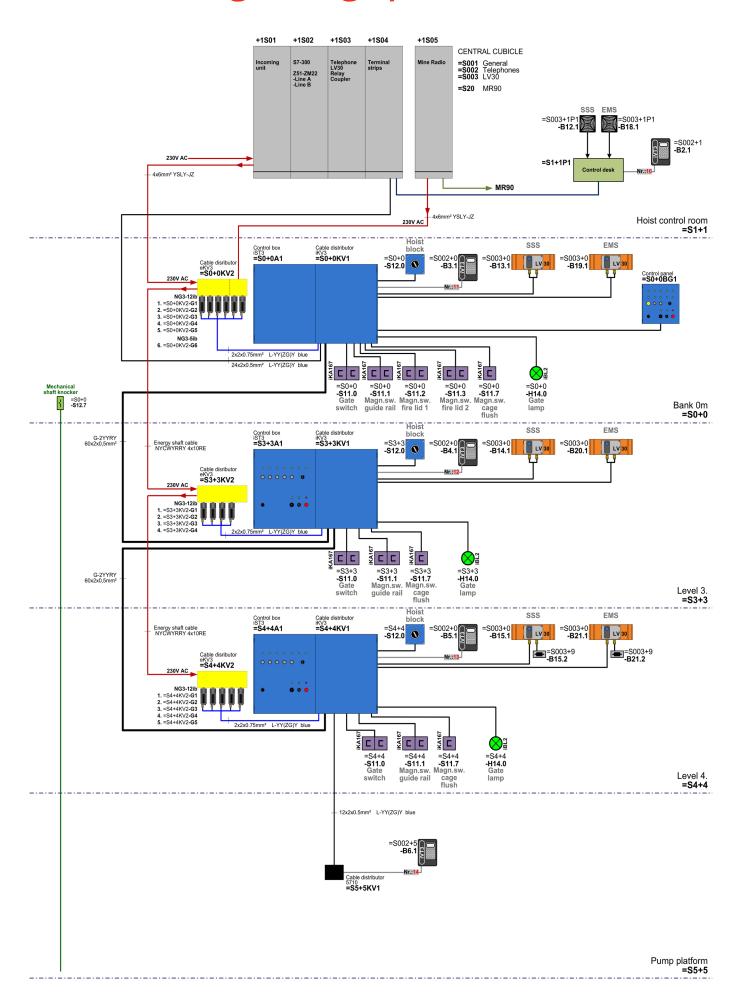
Safe shaft signalling system





Features:

- Fully integrated signalling (Data/Speech), telephone, shaft radio, CCTV and safety circuit system
- Emergency stop and interlock system with safety coupler (SIL 3) as a redundant system
- Up to two copper cables running down the shaft and used to supply equipment on individual levels
- Hybrid fiber optic cables as an alternative solution
- Independent power supply for the telephone and loudspeaker system (battery backup)
- Fully programmable main plc and scada system
- Robust level boxes out of 3mm stainless steel
- Data communication up to 12/Mbits (Profibus), or 100/Mbits (TCPIP)

Benefit:

- High safety level through redundant (two channelled) system
- Stand alone safety circuit according to SIL 3
- UPS function of the telephone and loudspeaker system, in case of mains power shut down
- Programmable to customer needs and local requirements
- Easy to install and commission due to fully pre-tested systems/sub systems
- Easy fault detection due to monitored modules and visualisation in the scada system
- Easy integration into third party system
- Analogue data transmission from the cage/Skip via wireless data communication
- Intrinsically safe explosion protection (I MI Ex la I Ma/ I M2 Ex lb I Mb)
- Rope force measurement / Slag rope monitoring
- Engineering, construction, factory installation, onsite installation and commissioning from one supplier
- After sales service from local subsidiary
- Fault diagnostic via VPN remote access

References:

Main shaft signalling system for men, material transport

SSS, Mine radio, wagon loading system, Prosper Haniel Shaft 10, 1250m (Germany)

Double skip system for men, material transport

SSS, Mine radio, Skip loading system, CCTV, Ural Kali SKRU 3, 600m (Russia)

Shaft signalling system for shaft sinking hoist

SSS, Mine radio, CCTV, water pumping, wireless communication for the loading gripper Thyssen Schachtbau, Norilsk Nickel, 2050m (Russia)

Over 150 installed systems all over the world







