CONVEYOR / MACHINE GUARD SAFETY SWITCH: MGSS R



SMARTsaa, an associate company of **Protocontrol Instruments I Pvt. Ltd. Pune** offers Machine Guard Safety Switch for detection of missing guard section placed around conveyor /machine.

Now a day, machine guards are installed around conveyors / machines to give additional protection to operators. These guards are installed at tail end, drive end as well as along the length of conveyor. These guards are to be removed in case of conveyor / machine maintenance. These guards are to be placed at its place before starting of conveyor /machine.

Following are the conditions which may happen during operation and hamper machine safety and human safety.

1. **Conveyor Guard is removed and machine is still moving: Effects human safety**
2. **Conveyor Guard is not placed and equipment is Started / Running: Effects Human Safety**

SMARTsaa make Machine Guard Safety SWITCH: MGSS R is developed to offers solution for this problem. It consists of GI Rope, one end is connected to the end bolt and another end is fixed with steel ball. The safety switch is having ball catch arrangement.

Hook is welded to every guard section and rope is passed through the hook. When operator want to remove the guard for maintenance, he has to remove the ball and untie the rope from the hook. When rope is removed from the switch, the switch operates and conveyor / Machine is tripped.

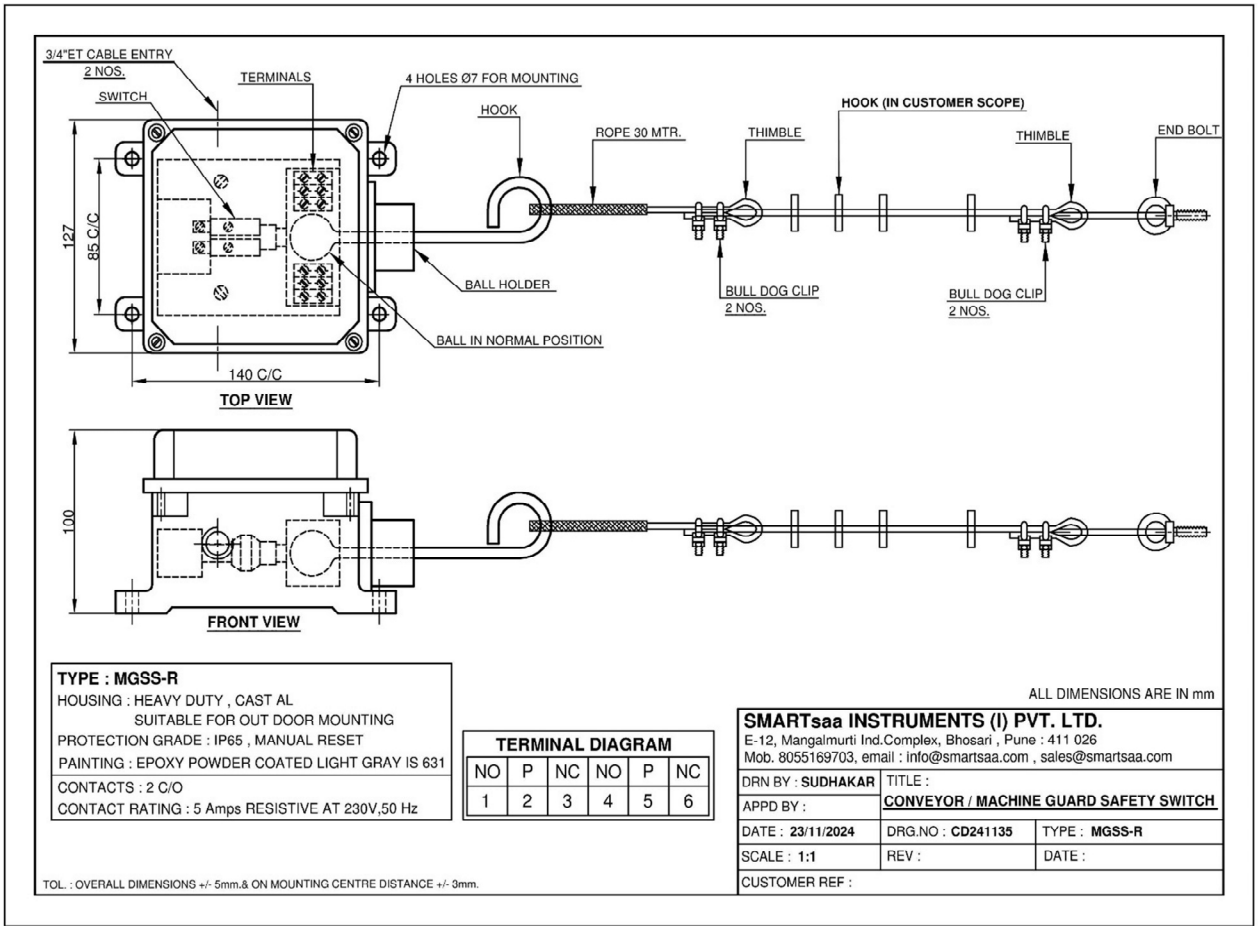
The rope passes through hook welded to the guard which is placed around the machine. When guard is removed the switch is operated. Potential free contacts are interlocked in the control circuit such that when switch is operated, the equipment trips. As the GI rope is flexible, can be wired around Tail and Drive end portion of conveyor.

The MGSS R contact can also be interfaced in the Belt Watch System, such that you get exact location of removed guard.
By using SMARTsaa advanced Belt Watch System, SMS notification of dislocated guard location can also be sent to multiple mobile numbers.



CONVEYOR / MACHINE GUARD SAFETY SWITCH WITH INDICATING LAMP: MGSS R

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SPECIFICATIONS:

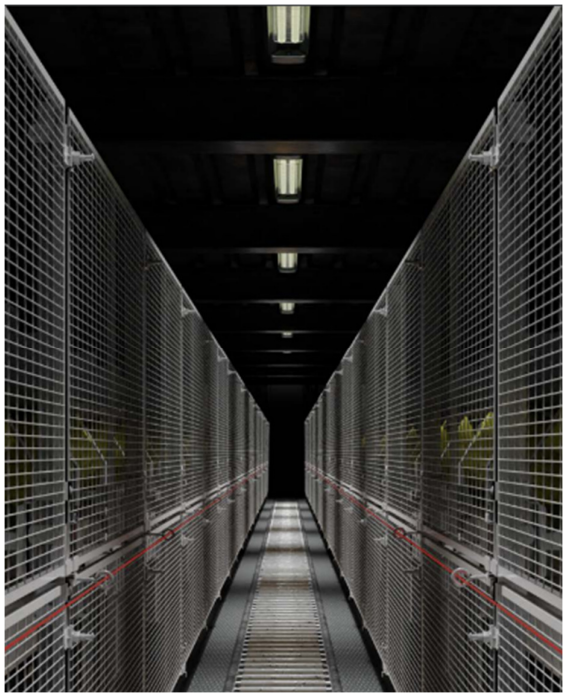
- **CONVEYOR / MACHINE GUARD SAFETY SWITCH: MGSS R,** Consist of
    1. Conveyor / Machine Guard Safety Switch: 1 No
    2. GI Rope 30 Meters
    3. Wire Rope Thimble (Rope Eye) 2 Nos,
    4. End Bolt 1 No.,
    5. Bull Dog Clip 4 Nos
- Operation: The switch is having ball catch mechanism. When the ball is removed from catch, switch is operated.
- Contact arrangement: 2 C/O / 2 NO + 2 NC
- Contact Rating: 10 Amp resistive at 230 V AC
- Enclosure: Field mounting IP 65
- Cable Entry: ¾ inch BSP, 2 Nos

Note: Site precondition:

- **Conveyor Guards to be available at site**
- **Hook to be welded to each conveyor guard section**
- **End Bolt to be welded to end guard section**
- **Mounting arrangement for Switch at every 30 Meters**
- **The Cabling has to be made till the Conveyor Guard Safety Switch**
- **You can loop this switch in Pull Cord Switch loop so that when any guard is removed conveyor trips**
- **If you want indication of operated switch (Including location of Pull Cord Switch) you need to have Belt Watch System**
- **If you want advanced featured Belt Watch System which will also send SMS (Text message) of guard removal, please go for SMARTsaa Advances Belt Watch System**



Switch Operates when Guard is removed



Rope passes through Hook fixed on Guard



Conveyor Guarding Fitted with Hook



Single Guard fitted with Hook



Conveyor Guarding Fitted with Hook



Dismantled Guard Section

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