Gammon Technical Products  
Instructions, Installation and Operation  
Deadman Control System  
Model No. GTP-1750-1

General Description

The deadman system is an electrical control unit designed to provide a means of switching electrical equipment. The equipment can be pump motor starter coils, control valve solenoids, etc. The deadman system consists of an explosion proof box, a solid state relay (intrinsically safe), electrical cable and a deadman switch handle.

The term intrinsically safe means that the current level going through the cable to the deadman handle is of such a low current that it will not create a spark if the cable is nicked and shorted out. This is absolutely essential in hazardous environments. The solid state relay switches line voltage on and off by using this low level current internally, acting as a barrier. This particular system is a 220 VAC system with one relay.

Installation

1. The control box mounts by for tabs at the top and bottom of the box (see drawing 1750-1 sheet 2 of 2 for mounting dimensions).

2. The control box is equipped with seal-off’s and fittings to run ¾” conduit into the box. Be sure to mount the box with the breather/drain facing down so as to gravity drain any water that may get into the box.

3. Make electrical connections (220 VAC) into the control box. Wire the relay inside the control box as shown in the wiring schematic. (See drawing GTP-1750-W220-1). Also see deadman control system pictorial wiring drawing GTP-3976.

4. Seal the “seal-off’s” with provided sealing compound.

Maintenance

A complete parts list is attached.
RECOMMENDED electrical wiring diagrams for intrinsically safe deadman solid state control circuit.

Unsafe electrical circuits that should never be used in 120 volt deadman system.

Motor starter circuit

Push start/stop type

Note: Connections 1, 2, 3, 4 and 7 are on external relay.

Motor starter simple switch type

Or

Solenoid valve circuit

Note: Connections 1, 2, 3, 4 and 7 are on external relay.

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Revisions

1. ECM 360
2. ECM 264
3. ECM 444
4. ECM CAB
5. ECM SWITCH
6. ECM RELAY

Date: 09/14/94
Sheet: 1
Drawing No.: GTP-1750-W120-1
NOTE
ONLY ONE WIRE PER CRIMP TERMINAL
USE INSULATED SPADE LIGS ONLY

BLACK 3"

WHITE 32"

GREEN 4"

POWER
120 VAC
OR
240 VAC

WHITE 32"

BLACK 32"

LOAD
STRIP WIRES 1/2"
PASS THRU HOLE "D" IN
BOX AND TAG WIRES

LOAD
120 VAC
OR
240 VAC

G A C AC NC ND C
27A GO

1 (120 VAC)
2 (240 VAC)

G H L G

RED 2"

RED 19"

RED 19"

DEADMAN HANDLE
STRIP WIRES 1/2"
PASS THRU HOLE "G" IN BOX
USING WIRE NUTS CONNECT
TO DEADMAN HANDLE CABLE

CAUTION !!
CARE MUST BE TAKEN TO AVOID
DEADMAN HANDLE WIRING FROM
CROSSING OR COMING INTO CONTACT
WITH ANY OTHER WIRING IN BOX.

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REVISIONS

DRAFTING

MANUFACTURING

INSPECTION

DECIMAL

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GTP-3976