

# INSTRUCTION SHEET

## φ 30 Switch Guard (EMO/EMS(Protective Shroud))

### XN Series

Confirm that the delivered product is what you have ordered.  
Read this instruction sheet to make sure of correct operation.  
Make sure taht the instruction sheet is kept by the end user.

#### SAFETY NOTE

Turn off the power to the switch before starting installation,  
wiring, maintenance and inspection of the switch. Failure to  
turn power off may cause electric shock or fire hazard.

#### 1 Type No.

XN9Z-KG1

#### 2 Applicable Standards

ISO13850 and SEMI-S2.

(\*Applicable switch is only the combination described below.)

#### 3 Applicable Switches for the Switch Guard

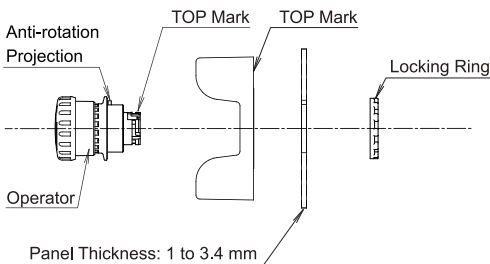
Switch Guard	Applicable Switches
XN9Z-KG1	XN1E-BV4, XN1E-LV4, XN1E-BV5, XN1E-TV4

#### 4 Panel Mounting

##### Panel Mounting

Face the TOP marking on the operator and the Switch guard  
upward and align anti-rotation of the operator unit with the key  
groove of the panel cut-out, then tighten the locking ring using  
ring wrench (XN9Z-T1 or TWST-T1) to a torque of 2.5 N·m.

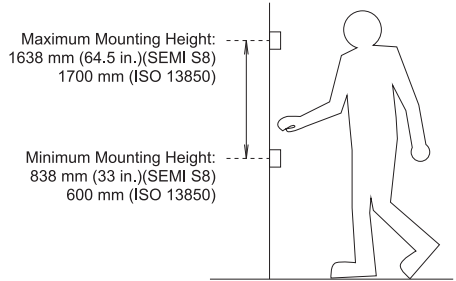
NOTE: Please note that if the anti-rotation and key groove can  
not be surely fitted, otherwise the normal waterproof and  
dustproof characteristics are not ensured.



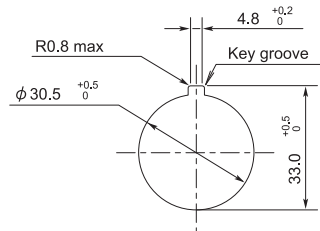
##### Mounting Height Range

When mounting on semiconductor manufacturing equipment,  
locate the panel cut-out for the switch guard at a maximum  
height of 1638 mm (64.5 in.) and a minimum height of 838 mm  
(33 in.). (SEMI S8)

When mounting on a machine tool or a food processing  
machine, should be to place the panel cutout of the switch  
guard at a maximum height of 1700mm and a minimum height  
of 600 mm.(ISO13850)



##### Panel Cut-out



#### 5 Notes for Operation

- All Circuits should be fault-tolerant.
- Only in cases where it is impossible to prevent unintentional  
operation by the installation position in safety requirements of  
ISO 13850 in machinery equipment such as machine tools and  
food machines subject to ISO / IEC,It is permitted to use  
emergency stop switches with switch guard.