TREICHL-ATM Electronic Auf der Bült 10 - 12 D 41189 Mönchengladbach Tel. 02166 958545 Fax 02166 958547 eMail: atm@treichl.de internet: www.atm-treichl.de

ø16mm + ø22mm

SEMI S2 Compliant EMO Switch Guards



New EMO (Emergency Off) Switch Guards

SEMI S2 compliant



Additions to the switch guards for ø22mm HW/XW series control units

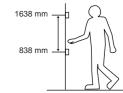
- Type No.: HW9Z-KG3 Smaller than the existing HW9Z-KG1.
- Type No.: HW9Z-KG4
 Narrower than the existing HW9Z-KG2, yet large enough to install ø60mm mushroom buttons.



New switch guard for ø16mm XA emergency stop switches

- Type No.: XA9Z-KG1
 Used for XA1E emergency stop switches.
 - Location of EMO switches on semiconductor manufacturing equipment (SEMI S8-0705, 9.1.2)
 EMO switches should not be located

above 1638 mm (64.5 in.) or below 838 mm (33 in.).



Also, EMO switches should be located within 3 m of the operator (SEMI S2-0703, 12.5.2).



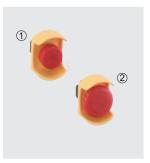
SEMI S2 Compliant

- The combinations of EMO switches and XA9Z-KG1, HW9Z-KG3, or -KG4 switch guards are TÜV approved for compliance with SEMI S2 standards. See page 3 for combinations.
- Compact Size
- HW9Z-KG3 and -KG4 can be used with FB series control boxes.
- EMO switches engraved with EMO legend is also available.

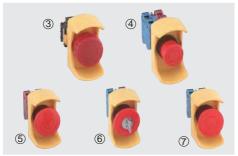


Combination Examples of SEMI S2-compliant Switches and Switch Guards

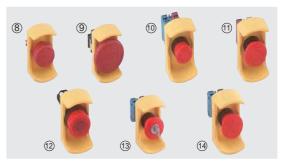
XA9Z-KG1



• HW9Z-KG3



HW9Z-KG4



Types

| Series | Description & Appearance | Type No. | Specifications | Dimensions (mm) |
|----------|---|----------|--|---|
| ø16mm XA | EMO Switch Guard SEMI S2 compliant (Note 1) | XA9Z-KG1 | Polyamide (PA6) Color: Yellow, Munsell 2.5Y 8/10 equivalent Degree of protection: IP65 | 23.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 1 |
| | EMO Switch Guard SEMI S2 compliant (Note 1) | HW9Z-KG3 | | 35 25 42 42 |
| ø22mm | EMO Switch Guard SEMI S2 compliant (Note 1) SEMATECH compliant (Note 3) | HW9Z-KG4 | | 35 25 06 6 |
| HW/XA | EMO Switch Guard SEMI S2 compliant (Note 2) | HW9Z-KG1 | | 8998 8898 8898 |
| | EMO Switch Guard SEMI S2 compliant (Note 2) SEMATECH compliant (Note 3) | HW9Z-KG2 | | 36.5 |

Note 1: The combinations of IDEC's emergency stop switches and EMO switch guards are approved by TÜV Rheinland for compliance with SEMI S2 standard. Note 2: SEMI S2-0703, 12.5.1 compliant.

Note 3: SEMATECH Application Guide for SEMI S2-93, 12.4.c. compliant.

- Degree of protection IP65 applies to the combination of an emergency stop switch and an EMO switch guard.
- HW9Z-KG1 and HW9Z-KG2 can be used with ø29mm or ø40mm mushroom buttons. ø60mm mushroom buttons cannot be installed.

SEMI S2-compliant Combinations

| EMO Switch Guard | Applicable Emergency Stop Switches |
|------------------|---|
| XA9Z-KG1 | ①: XA1E-BV3, XA1E-LV3; ②: XA1E-BV4, XA1E-LV4 |
| HW9Z-KG3 | ③: XW1E-BV4, XW1E-LV4, XW1E-TV4; ④: HW1B-V3; ⑤: HW1B-V4; ⑥: HW1B-X4; ⑦: HW1B-Y2 |
| HW9Z-KG4 | 8: XW1E-BV4, XW1E-LV4, XW1E-TV4; 9: XW1E-BV5; 0: HW1B-V3, 0: HW1B-V4; 0: HW1E; 0: HW1B-X4; 0: HW1B-Y2 |

[•] The circled numbers above correspond to those in "Combination Examples of SEMI S2-compliant Switches and Switch Guards" on page 2.

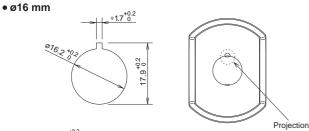
Note:

EMO switch guards have been designed for applications in semiconductor manufacturing equipment only. Do not use the EMO switch guards with emergency stop switches which are installed on machine tools or food processing machines. (Machinery Directive of the European Commission and IEC 60204-1 require that emergency stop switches be installed in a readily accessible area, and the usage of switch guards is not permitted.)

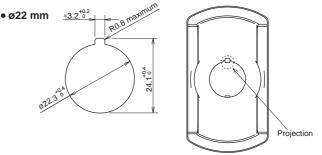
SEMI EMO Switch Guards

Panel Cut-out

-anei Gui-oui



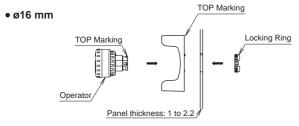
The *1.7 $^{+0.2}_{}$ recess is for preventing rotation and not necessary when anti-rotation is not used.



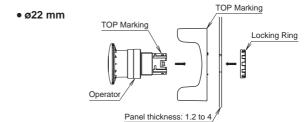
The *3.2 $^{+0.2}_{0}$ recess is for preventing rotation and not necessary when anti-rotation is not used.

When anti-rotation is not required or when the panel cut-out does not have anti-rotation recess, remove the projection using pliers.

Installation



To tighten the locking ring, use locking ring wrench MT-100 and tighten to a torque of 0.88 N-m. $\,$



To tighten the locking ring, use locking ring wrench MW9Z-T1 and tighten to a torque of 2.0 N·m.

All dimensions in mm.

Emergency Off Switch (ø40mm Pushlock Turn Reset Switch) with EMO Marking

| | Appearance | Appearance Contact Arrangement Type No. | | Button Color | Dimensions (mm) | | |
|--|------------|---|----------------|-----------------|--|--------------|--|
| | | 1NC | HW1B-V401R-EMO | Red (R) only | Locking Ring | Locking Ring | |
| | | 1NO-1NC | HW1B-V411R-EMO | | | 8 FM 8 5 | |
| | FMO | 2NC | HW1B-V402R-EMO | | | | |
| | | 2NO-2NC | HW1B-V422R-EMO | | contact block 2 contact blocks 4 contact blocks 69.4 (4 blocks) 13 | 29.4 | |

EMO Sticker

Type No.: HW9Z-EMO-NPP Color: Yellow (red legend) Package Quantity: 10





Read operating instructions to ensure correct operation before starting installation, wiring, operation, maintenance, and inspection of the switch guards.

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Specifications and other descriptions in this brochure are subject to change without notice.