

# Zone 2 / Division 2 keyboard with capacitive touchpad mouse

## EXTA3-\* -K4-\*



- IP66 (front plate)
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in hazardous areas, Class I/Div. 2, and Class II/Div. 2
- USB interface
- Nonincendive Division 2 / Zone 2 barrier required
- Panel mount or stainless steel housed keyboard
- International keyboard layouts
- Capacitive touchpad mouse

### Zone 2 / Division 2 keyboard with capacitive touchpad mouse



### Function

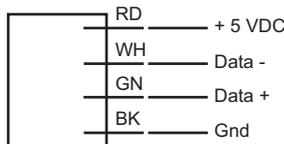
The EXTA3-\* -K4-\* is a non-incendive keyboard with USB interface. The keyboard is designed for panel mounting or for installation in a desktop housing.

Pointing devices can be configured as part of the model nomenclature:

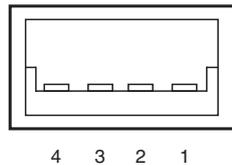
- K1 No pointing device
- K3 Mechanical trackball
- K4 Capacitive touchpad
- K6 Joystick
- K8 Sealed optical trackball
- K9 Glove friendly resistive touchpad

### Connection

Cable ends

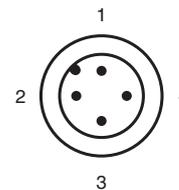


Type A USB



| Pin | Description |
|-----|-------------|
| 1   | + 5 VDC     |
| 2   | Data -      |
| 3   | Data +      |
| 4   | Gnd         |

4-pin, M12



| Pin | Description |
|-----|-------------|
| 1   | + 5 VDC     |
| 2   | Data -      |
| 3   | Data +      |
| 4   | Gnd         |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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**PF** PEPPERL+FUCHS



## Technical Data

|  |   |            |
|--|---|------------|
| Degree of protection   | IP66 (front plate)<br>Type 4X   |            |
| <b>Ambient conditions</b>                                      |   |            |
| Operating temperature  | -20 ... 50 °C (-4 ... 122 °F)   |            |
| Storage temperature  | -20 ... 70 °C (-4 ... 158 °F)   |            |
| Relative humidity  | max. 85 % , non-condensing (48 h endurance test)  |            |
| <b>Mechanical specifications</b>                               |   |            |
| Material   | anodized aluminum , Polyester foil  |            |
| Mass   | 1.2 kg  |            |
| Dimensions   | Desktop mount: 559.3 mm x 254.6 mm x 44.5 mm (22.02" x 10.02" x 1.75")<br>Panel mount: 491.4 mm x 186.8 mm x 45 mm (19.35" x 7.35" x 1.77")   |            |
| Cut out dimensions   | 483 mm x 178.2 mm   |            |
| Cable length   | 1.8 m   |            |
| Note   | The nonincendive barrier, SK-PC-D2-UU1-10-HS, is required when using this product.  |            |
| <b>Data for application in connection with hazardous areas</b> |   |            |
| Certificate  | PF II CERT 1918X  |            |
| Marking  |  II 3GEx ic IIC T4 Gc<br> II 3D EX ic IIB T135°C Dc |            |
| <b>Input</b>   |   |            |
| Voltage  | $U_o$   | 5.4 V DC   |
| Current  | $I_i$   | 240 mA     |
| Internal capacitance   | $C_i$   | 24 $\mu$ F |
| Internal inductance  | $L_i$   | negligible |
| <b>International approvals</b>                                 |   |            |
| UL approval  | cULus (E190294)   |            |
| Approved for   | Class I, Division 2, Groups A, B, C, D, T4<br>Class II, Division 2, F, G  |            |

## Accessories

|   |                           |                                  |
|---|---------------------------|----------------------------------|
|  | <b>SK-PC-D2-UU1-10-HS</b> | Div. 2 / Zone 2 Ex-rated barrier |
|---|---------------------------|----------------------------------|

### Chemical resistance of keyboard foil

The keyboard foil is manufactured from a biaxially aligned polyester-based material and therefore has a greater resistance to solvents. The foil is stronger and more durable than other standard foils used on keyboards and front panels, such as polycarbonate and PVC.

| <b>The keyboard foil is resistant against the following substances: (Test method: DIN42115)</b> | <b>The foil passed the anti microbial effectiveness tested with:<br/>(Test method: AATCC Test method 100):</b> |
|---|--|
| Alcohols  | Staphylococcus aureus (MRSA)   |
| Dilute acids  | Escherichia coli 0157  |
| Dilute alkalis  | Listeria monocytogenes   |
| Esters  | Pseudomonas aeruginosa   |
| Hydrocarbons  | Salmonella enteritidis   |
| Ketones   | Bacillus cereus  |
| Household cleaning agents   | Streptococcus faecalis   |
|   | Klebsiella pneumoniae  |
|   | Aspergillus niger  |
|   | Penicillium purpurogenum   |
|   | Phoma violacea   |
|   | Saccharmyces cerevisiae  |
|   |  |

Type code

**E X T A 3 - D 2 - N 3 - K 4 - U S - U - 0 2 - C F - Z - 1 0 - N**

**Options**  
N No option

**Revision**  
10 Release 1.0

**Mounting versions**  
C Standard housing  
R Mounting version prepared for 48mm tubes 'mounting concepts'  
Z No mounting adapter necessary

**Connector type**  
CF Cable ends with crimped ferrules  
UA 2 x USB type A male connectors  
M4 4-pin, M12 male connector

**Cable length**  
02 1.8 m keyboard cable

**Interface**  
U 2 x USB

**Keyboard layout**  
US US-International keyboard layout  
DE German keyboard layout  
FR French keyboard layout

**Keyboard + mouse type**  
K1 Foil keyboard without mouse  
K3 Foil keyboard with mechanical trackball (A1 and GP only)  
K4 Foil keyboard with capacitive touchpad mouse  
K6 Foil keyboard with joystick mouse (not suitable for D4)  
K8 Foil keyboard with optical trackball mouse  
K9 Foil keyboard with resistive touchpad mouse

**Housing**  
F Housing version with different mount options (see 'Mounting options' section)  
N3 No housing, flush mount type  
T3 Desktop housing for EXTA3

**Ex-Protection**  
A1 ATEX II 3GD  
D2 Class I, Div 2 ABCD  
D4 Class I, Div 2 and Class II, Div 2, ABCDFG  
GP Industrial Non-Ex version, General purpose

**EXTA3** Short travel foil keyboard Non-Ex with integrated mouse, flush mount  
**EXTA3** Short travel foil keyboard with integrated mouse, flush mount

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