

Ex i keyboard with optical trackball

EXTA4-*-K8*

- Degree of protection: IP 65
- Stainless steel housing
- National layout variants available for US, GER and FR
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in Zone 1/21 and Zone 2/22 hazardous areas
- USB or PS/2 interface with USB cable
- UL listed for USA and Canada, Class I, Div. 2 (UL HazLoc Equipment) or Class I, II, III, Div. 2 (UL Hazloc Component)

Ex i keyboard with optical trackball



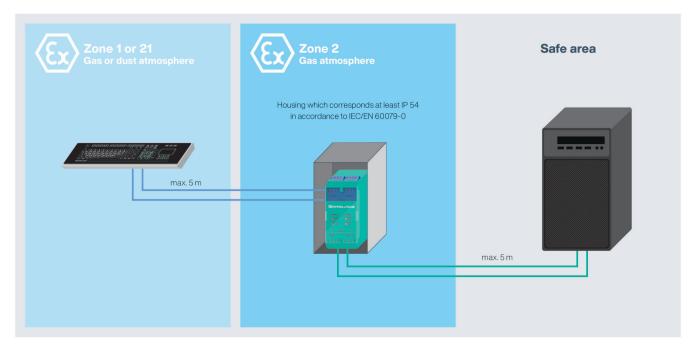
Function

EXTA4-* is an intrinsically safe keyboard with touchpad (EXTA4-*-K4*), joystick (EXTA4-*-K6*) or optical trackball (EXTA4-*-K8*). The interfaces of mouse and keyboard are separated IS-Circuits. Both circuits are lead trough in one connecting cable (connecting cable is included in delivery).

The keyboards are designed for panel mounting or for installation in a housing. The EXTA4-* is designed as accessory for the Pepperl+Fuchs Workstations VisuNet GXP and VisuNet FLX but can be used as stand-alone keyboard in combination with the available barriers as well.

Function Principle

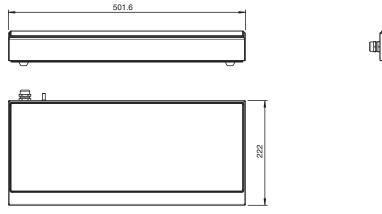
Sample Stand-alone Application for Keyboards (Refer to the manual for further samples.)





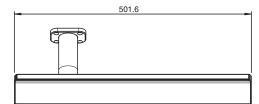
Dimensions

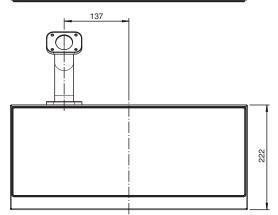
Desktop housing

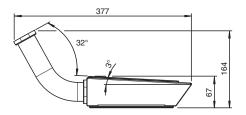




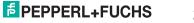
Standard housing with mounting options - sample VisuNet GXP One-Arm Installation





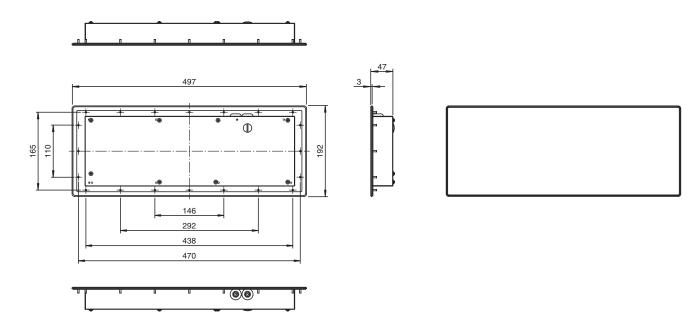


Refer to "General Notes Relating to Pepperl+Fuchs Product Information"



Dimensions

Panel Mounting



Technical Data

| General specifications | | | | |
|-------------------------------|----|--|--|--|
| Туре | | Keyboard with optical trackball | | |
| Suitable components | | SK-PC-Z1D1-UU1-10-HS and SK-PC-D2-UU1-10-HS | | |
| Supply | | | | |
| Rated voltage | Ur | Ex i, via data line | | |
| Indicators/operating means | | | | |
| Keyboard | | 105 short stroke keys Keyboard layout: US international, German, French | | |
| Trackball | | | | |
| Diameter | | 50 mm | | |
| Material | | Phenolic resin (black) | | |
| Driver | | Microsoft Mouse ®, USB | | |
| Interface | | | | |
| Interface type | | USB | | |
| Directive conformity | | | | |
| Electromagnetic compatibility | | | | |
| Directive 2014/30/EU | | EN 61326-1:2013 (industrial locations) EN 61000-6-4:2007+A1:2011 | | |
| RoHS | | | | |
| Directive 2011/65/EU (RoHS) | | EN 50581:2012-09 | | |
| Conformity | | | | |
| Degree of protection | | IP65 in full operation (dynamic) | | |
| Ambient conditions | | | | |
| Ambient temperature | | 0 50 °C (32 122 °F) | | |
| Storage temperature | | -20 70 °C (-4 158 °F) | | |
| Relative humidity | | max. 85 % , non-condensing | | |
| Mechanical specifications | | | | |
| Material | | anodized aluminum , Polyester foil | | |
| Mass | | 1.2 kg | | |
| Dimensions | | 502 mm x 222 mm x 66 mm | | |
| | | | | |

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

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| Technical Data | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| Cut out dimensions | 450 mm x 152 mm | | | | |
| Cable length | 5 m / 1.8 m / 1 m | | | | |
| Data for application in connection with haza | rdous areas | | | | |
| EU-type examination certificate | Zone 1/21 BVS 07 ATEX E 163 X | | | | |
| | Zone 2/22 BVS 21 ATEX E 009 X | | | | |
| Marking | Zone 1/21 li 2G Ex ib IIC T4 Gb li 2D Ex ib IIIB T135°C Db | | | | |
| | Zone 2/22 © II 3G Ex ic IIC T4 Gc © II 3D Ex ic IIIB T135°C Dc | | | | |
| Directive conformity | | | | | |
| Directive 2014/34/EU | EN IEC 60079-0:2018 EN 60079-11:2012 | | | | |
| International approvals | | | | | |
| UL approval | in preparation | | | | |
| IECEx approval | | | | | |
| IECEx certificate | Zone 1/21 IECEx BVS 08.0022X | | | | |
| | Zone 2/22 IECEx BVS 08.0022X | | | | |
| IECEx marking | Zone 1/21 Ex ib IIC T4 Gb Ex ib IIIB T135°C Db | | | | |
| | Zone 2/22 Ex ic IIC T4 Gc Ex ic IIIB T135°C Dc | | | | |
| | | | | | |

Type Code

EXTA4-*

| EXTA4- | (1)- | (2)- | K(3) | (4)- | U(5) | (6)- | (7)- | (8) |
|------------|---|-----------------|--------------------|-----------------|--------------------|-------------------|------|-----|
| lodel | | | | | | | | |
| EXTA4- | Short travel foil key | /board for use | in explosion hazar | dous environm | nents - standard (| option | | |
| | | | • | | | • | | |
| (1)- | Ex Protection | | | | | | | |
| N- | Industrial, general | | ex) | | | | | |
| J- | ATEX & IECEx Zor | | | | | | | |
| <u>_</u> - | ATEX & IECEx Zor | ne 2/22 | | | | | | |
| (2)- | Housings | | | | | | | |
| NN- | No housing, panel | mountina | | | | | | |
| F1- | Standard housing | | options | | | | | |
| T1- | Desktop housing | | | | | | | |
| | | | | | | | | |
| K(3) | Mouse Options | | | | | | | |
| K4 | Capacitive Touchp | ad | | | | | | |
| K6 | Joystick | | | | | | | |
| K8 | Optical Trackball | | | | | | | |
| (4)- | Keyboard Layout | S | | | | | | |
| US0- | US-International La | | ΓY) | | | | | |
| DE0- | German Layout (Q | WERTZ) | , | | | | | |
| FR0- | French Layout (AZERTY) | | | | | | | |
| xxx- | Other languages o | n request [plac | e holder option fo | r other languag | ges] | | | |
| U(5) | Cable Length | | | | | | | |
| U10 | 1 m cable length (p | proformed for G | VP and ELV) [only | for housing on | tions "NN" and " | E1" not for "T1"] | | |
| U18 | • | | | <u> </u> | NIONS ININ ANU | | | |
| U50 | 1.8 m cable length (preferred option for AG1 housing) 5 m cable length (preferred for Desktop housing option) [only for housing options "NN" and "T1", not for "F1"] | | | | | | | |

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

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| Type Code | | | | | | | | |
|-----------|--|-------------------|--------------------|-----------------|---------------------|-------------|-----|----|
| (6)- | Connectors | | | | | | | |
| CF- | Cable ends with cr | rimped ferrules (| e.g. to connect t | o VisuNet GXP o | or Barrier) - stand | dard option | | |
| UA- | 2x USB type A ma | le connectors (e | e.g. to connect to | VisuNet FLX) - | standard option | | | |
| (7)- | Mounting Options | | | | | | | |
| NP- | Panel mounting [or | nly for housing c | ption "NN"] | | | | | |
| T1- | No mounting option - Desktop housing [only for housing options "T1" AND cable length "U18" or "U50"] | | | | | | | |
| G1- | GXP One-Arm installation to AG-XX00 - standard option [only for housing option "F1" AND cable length "U10" AND connector "CF"] | | | | | | | |
| G2- | GXP Double-Arm installation to AG1 - standard option [only for housing option "F1" AND cable length "U18" AND connector "CF"] | | | | | | | |
| H1- | Hinged version for VisuNet FLX - standard option [only for housing option "F1" AND cable length "U10" AND connector "UA"] | | | | | | | |
| C1- | Cabinet / horizontal installation on vertical housing (wall mounting) - standard option [only for housing option "F1" AND cable length "U18" AND connector "UA"] | | | | | | | |
| (8) | Options | | | | | | | |
| NO | Standard, no options - standard option [standard option & preferred] | | | | | | | |
| UV | UV-resistant front foil for outdoor use | | | | | | | |
| Example: | | | | | | | | |
| EXTA4- | N- | NN- | K4 | US0- | U10 | CF- | NP- | N0 |

| Access | ories | |
|--------|-------|--|
| ALLESS | Unes | |

| SK-PC-Z1D1-UU1-10-HS | USB intrinsic safety barrier for stand-alone keyboard applications |
|----------------------|--|
| SK-PC-D2-UU1-10-HS | Div. 2 / Zone 2 Ex-rated barrier |

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

Additional Information

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.

| The keyboard foil is resistant against the following substances: (Test methode: DIN42115) | The foil passed the anti microbial effectiveness tested with: (Test method: AATCC Test method 100) |
|--|---|
| Alcohols | Staphyloccus 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 |

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Pepperl+Fuchs Group www.pepperl-fuchs.com

