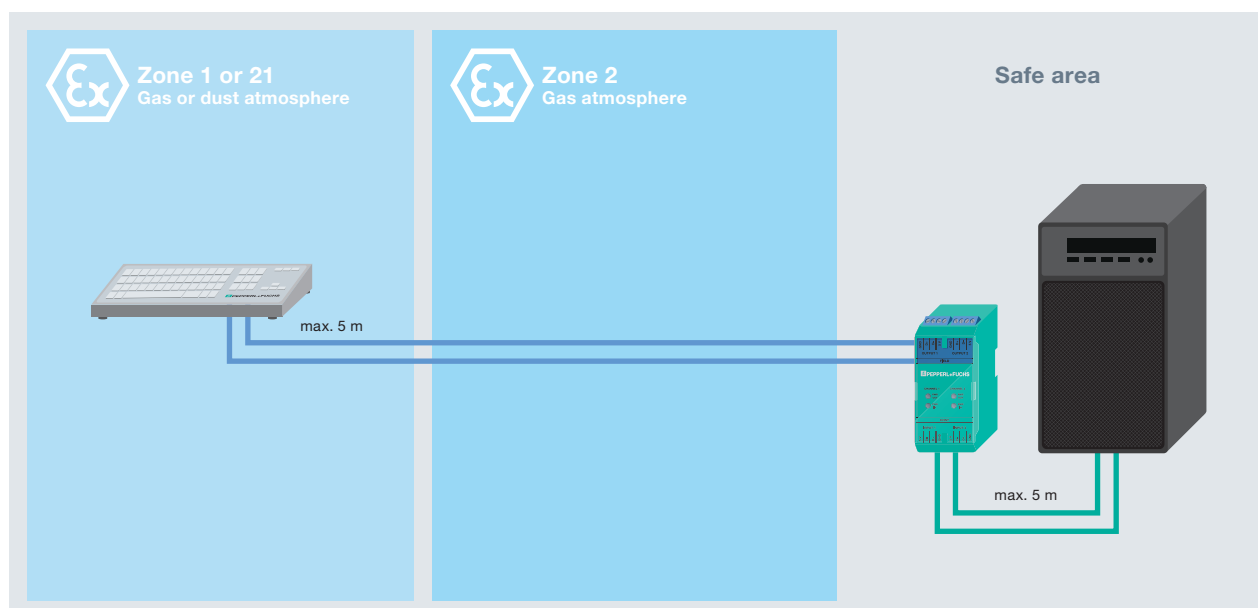## Features

- Degree of protection: IP66 (housings), IP65 (front panel)
- Stainless steel desktop housing available
- Several national layout variants
- PC-compatible-keyboard with 105 short stroke keys
- Designed to use in hazardous area, category II 2G (zone 1)
- USB or PS/2 interface with USB cable
- Certified for ATEX and IECEx Zone 1/21
- UL listed for USA and Canada

Application

Die EXTA2-*-*-K3-**-U-*-* is an intrinsically safe keyboard with trackball. The interfaces of mouse and keyboard are separated IS-Circuits. Both circuits are lead trough in one connecting cable. (connecting cable is inculded in delivery). The keyboards are designed for panel mounting or for installation in a housing.

Connection

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

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General specifications	
Type	Keyboard with trackball
Suitable components	SK-PC-Z1D1-UU1-10-HS
Supply	
Rated voltage U_r	Ex i, via data line
Indicators/operating means	
Keyboard	105 short stroke keys Keyboard layout: US international, German, French, (further keyboard layouts on demand)
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	
Electromagnetic compatibility	EN 61000-6-2:2005
Degree of protection	IP65 , if trackball is inactive. Undefined during motion.
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	482.6 mm x 177.8 mm x 45 mm
Cut out dimensions	450 mm x 152 mm
Cable length	5 m / 1.8 m, USB
Data for application in connection with hazardous areas	
EU-Type Examination Certificate	BVS 07 ATEX E 163 X
Marking	⟨Ex⟩ II 2G Ex ib IIC T4 Gb ⟨Ex⟩ II 2D Ex ib IIIB T135°C Db
Input	
Voltage U_i	5.4 V
Current I_i	240 mA
Internal capacitance C_i	24 µF
Internal inductance L_i	negligible
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-11:2012
International approvals	
UL approval	UL listing / recognition : E190294
IECEx approval	IECEx BVS 08.0022X
Approved for	Ex ib IIC T4 Gb , Ex ib IIIB T135 °C Db

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

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Dimensions
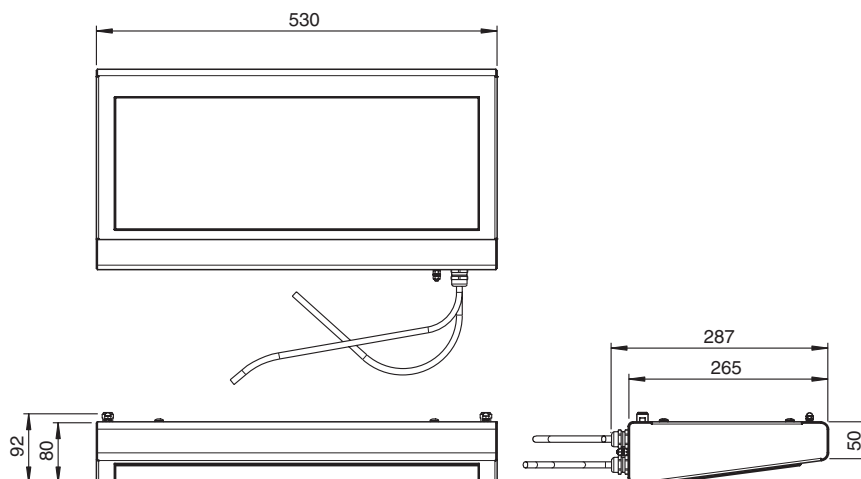
Accessories

USB stand alone Barrier

SK-PC-Z1D1-UU1-10-HS

USB intrinsic safety barrier for stand-alone keyboard applications

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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EXTA2

Type	Explosion Protection	Housing	Keyboard Type	Keyboard Layout	Interfaces	Cable Length	Connector Type	Mounting Option	Revision	Options
EXTA2-	Keyboard for hazardous areas									
TA2-	Keyboard for safe areas									
	Ex Protection									
	-F	ATEX II 2 GD; Zone 1/21								
	-J	IECEx & ATEX II 2 GD; Zone 1/21 NEC Class I, Div. 2, Zone 22; Class II, Div. 2, Zone 22; and Class III, Zone 22 (only in combination with "N" housing option)								
	-N	Version for safe area								
	-K	ATEX/IECEx, Class I, Div. 2, in combination with housing options "T" or "F"								
		Housing								
		-N	Panel mount version							
		-T	Desktop version							
		-F	Enclosure Version							
			Keyboard Type							
			-K3	Foil keyboard with trackball. ATEX/IECEx only.						
			-K4	Foil keyboard with touchpad						
			-K6	Foil keyboard with joystick. Not to be used with option "N" when marked as Class I, Div. 2, Zone 2; Class II, Div. 2, Zone 22; Class III, Zone 22.						
				Keyboard Layout						
				-US	US international keyboard layout					
				-DE	German keyboard layout					
				-FR	French keyboard layout					
				-XXX	Other keyboard layouts on demand					
					Interface					
					-U	2 x USB interface				
						Cable Length				
						02	1.8 m keyboard cable			
						05	5 m keyboard cable			
							Connector Type			
							-CF	Cable ends with wire end ferrule		
							-UA	2 x USB plugs type A (not available for Ex protection option "-J")		
								Mounting Option		
								-Z	No mounting option necessary	
								-F	15° mounting adapters, vertical	
								-L	75° mounting adapters, vertical	
								-H	15° mounting adapters, horizontal	
								-G	1-Arm for mounting to housing AG-XX00	
									Revision	
									-10	Release 1.0
										Options
										-N No options
										-U UV-resistant foil

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