BECKHOFF KL1232-xxxx
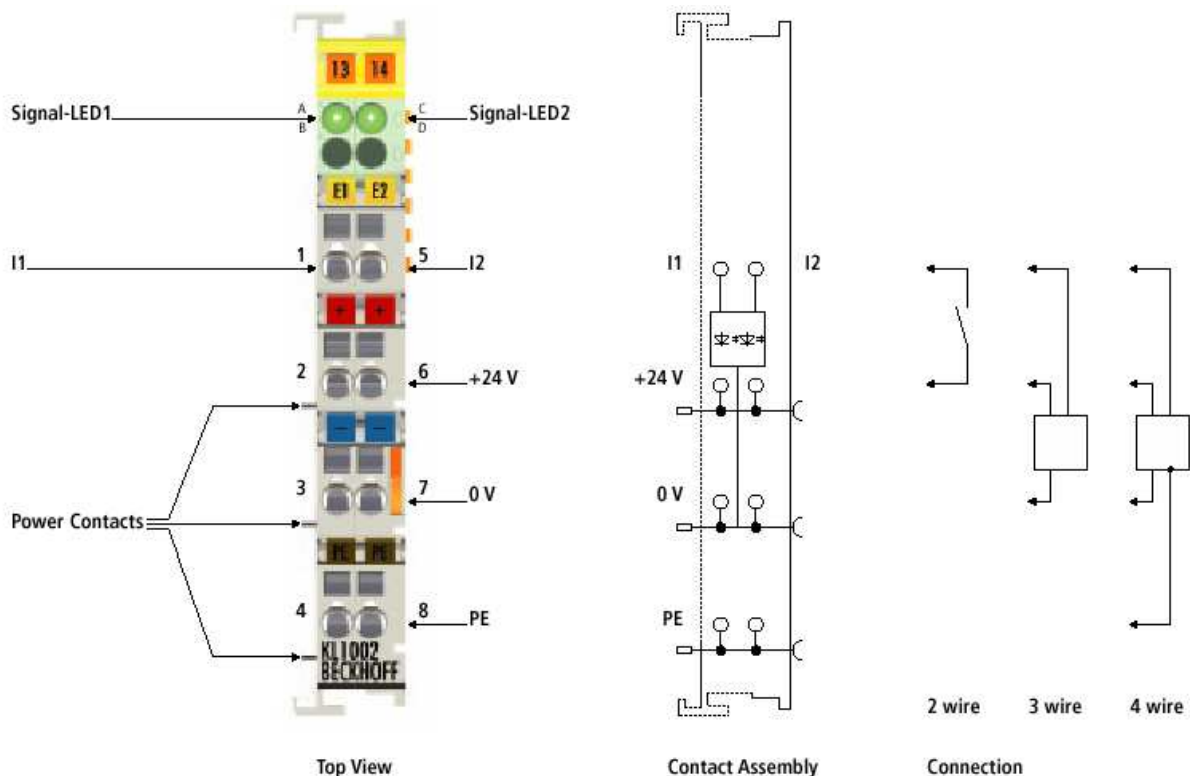
**2-Channel Digital Input Terminal 24V$_{DC}$
with edge triggered puls expansion**

**Version 1.1
2006-10-20**

Technical data

Top View   Contact Assembly   Connection

Technical data	KL1232-xx0x	KL1232-xx1x
Number of inputs	2	
Nominal voltage	24 V DC (20 V ... 29 V)	
„0" signal voltage	-3 V ... 5 V	
„1" signal voltage	15 V ... 30 V	
Input filter	0.2 ms	3.0ms
Puls expansion	10, 20, 100 ms	
Input current	5 mA typ.	
Current consup. from K-Bus	5 mA typ.	
Electrical isolation	500 Veff (K-Bus / field potential)	
Bit with in the process image	2 I	
Configuration	No address or configuration settings	
Weight approx.	55 g	
Operation temperature	0℃ ... +55℃	
Storage temperature	-25℃ ... +85℃	
Relative humididy	95%, no condensation	
Vibration / shock resistance	conforms IEC 68-2-6 / IEC 68-2-27	
EMC resistance burst /ESD	conforms EN 50082 (ESD, Burst) / EN 50081	
Installation pos.	Variable	
Protection class	IP20	

General technical data

2 Channel Digital Input with edge triggered puls expansion . The status of the inputs is shown by the LED's.

Identification:

KL1232- X_a X_b X_c X_d

X_a	**1 = 0V (ground) switching , 0 = positiv switching**
X_b	**1 = Trigger falling edge, 0 = rising edge**
X_c	**1 = 3.0ms input filter, 0 = 0.2ms input filter**
X_d	**0 = 100ms, 1= 10ms , 2 = 20ms puls expansion**

Modul overview:

KL1232-0000
Positve switching, input filter 0.2ms, rising edge triggered, 100ms pulse expansion

KL1232-0100
Positve switching, input filter 0.2ms, falling edge triggered, 100ms pulse expansion

KL1232-1100
0V (ground) switching, input filter 0.2ms, falling edge triggered, 100ms pulse expansion

KL1232-1000
0V (ground) switching, input filter 0.2ms, rising edge triggered, 100ms pulse expansion

KL1232-0010
Positve switching, input filter 3.0ms, rising edge triggered, 100ms pulse expansion

KL1232-0110
Positve switching, input filter 3.0ms, falling edge triggered, 100ms pulse expansion

KL1232-1110
0V (ground) switching, input filter 3.0ms, falling edge triggered, 100ms pulse expansion
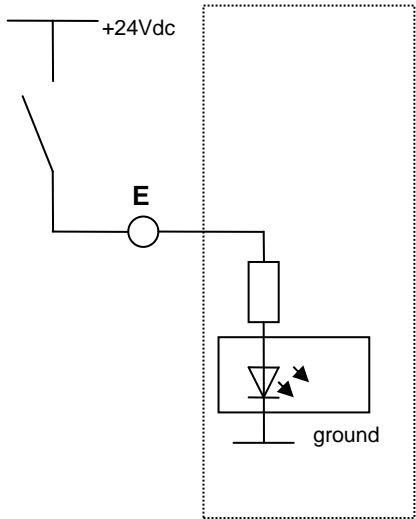
KL1232-1010
0V (ground) switching, input filter 3.0ms, rising edge triggered, 100ms pulse expansion
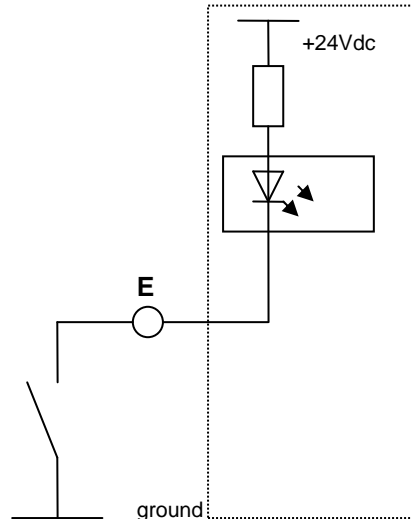
KL1232-0001
Positve switching, input filter 0.2ms, rising edge triggered, 10ms pulse expansion

KL1232-0002
Positve switching, input filter 0.2ms, rising edge triggered, 20ms pulse expansion

+24Vdc

E

ground

Positiv switching
KL1232-**0**xxx

+24Vdc

E

ground

0V (ground) switching
KL1232-**1**xxx

Input

0,1ms 0,4ms   5,0ms   120ms

24Vdc

0Vdc

t

Input filter 0.2ms,
positive edge triggered

Process
image
0,2ms   0,2ms   0,2ms

KL1232-0000
KL1232-1000
KL1232-0001
KL1232-0002

t

Input filter 0.2ms,
negative edge triggered

10, 20,100ms   10, 20,100ms   100ms

Process-
image
0,2ms   0,2ms

KL1232-0100
KL1232-1100

t

Input filter 3,0ms,
positive edge triggered

100ms   100ms

Process
image
3,0ms   3,0ms

KL1232-0010
KL1232-1010

t

Input filter 3,0ms,
negative edge triggered

100ms   100ms

Process
image
3,0ms

KL1232-0110
KL1232-1110

t

100ms

KL1232-xxxx, Special function