

# Interface Technology

## K-System Isolated Barriers

### Analog input signals

#### Signal converters for current and voltage



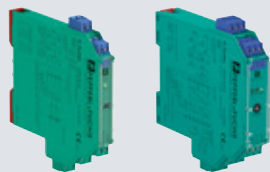
Model Number	Number of channels	Housing width		Input			Output					Functions		Supply				
		20 mm	40 mm	Current / voltage	Strain gauge bridge	Voltage	-10 V ... +10 V	-20 mA ... +20 mA	0 V ... 10 V	0 mA ... 20 mA	Relays	4 mA ... 20 mA	Trip relay	Line fault detection	24 V DC	Loop powered	Installation in Zone 2	Installation in Div. 2
KFD0-CC-EX1	1	■		■							■			■	■	■		
KFD2-WAC2-Ex1.D	1		■	■	■	■	■	■	■	■	■	■	■	■	■			■

#### Signal converters for resistors and potentiometers



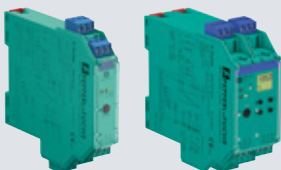
Model Number	Number of channels	Housing width		Input				Output				Supply		SIL 2	Installation in Zone 2	Installation in Div. 2	
		20 mm	40 mm	3-wire connection	4-wire connection	5-wire connection	Potentiometer	0 mA ... 20 mA	4 mA ... 20 mA	0 V ... 5 V	0 V ... 10 V	24 V DC	Loop powered				
KFD2-PT2-EX1	1		■	■	■	■	■					■		■	■	■	■
KFD2-PT2-EX1-1	1		■	■	■	■	■				■			■	■	■	■
KFD2-PT2-EX1-4	1		■	■	■	■	■	■						■	■	■	■
KFD2-PT2-EX1-5	1		■	■	■	■	■		■	■				■	■	■	■

### Temperature converters and repeaters



Model Number	Number of channels	Housing width		Input							Output				Functions			Supply				
		12.5 mm	20 mm	2-wire connection	3-wire connection	4-wire connection	Potentiometer	Voltage	Thermocouple	Resistance thermometer	4 mA ... 20 mA	0(1) V ... 5 V	0(4) mA ... 20 mA	Resistance	Internal cold junction compensation	Line fault detection	Splitter function	24 V DC	Loop powered	SIL 2	Installation in Zone 2	Installation in Div. 2
KCD2-UT2-EX1	1	■		■	■	■	■	■	■	■			■		■			■		■	■	
KFD2-UT2-EX1	1		■	■	■	■	■	■	■	■			■		■			■		■	■	
KFD2-UT2-EX1-1	1		■	■	■	■	■	■	■	■		■			■			■		■	■	
KFD2-UT2-EX2	2		■	■	■	■	■	■	■	■			■		■	■		■		■	■	
KFD2-UT2-EX2-1	2		■	■	■	■	■	■	■	■		■			■	■		■		■	■	
KFD0-TR-EX1	1		■		■					■	■							■	■		■	
KCD2-RR2-Ex1*	1	■								■			■		■			■		■	■	■

### Temperature converters with trip values



Model Number	Number of channels	Housing width		Input					Output		Functions			Supply			SIL 2	Installation in Zone 2	Installation in Div. 2		
		20 mm	40 mm	Potentiometer	Voltage	Thermocouple	Resistance thermometer	Current / voltage	0(4) mA ... 20 mA	Relays	Trip relay	Line fault detection	Programmable high/low alarm	24 V DC	20 V ... 90 V DC/48 V ... 253 V AC	230 V AC					
KFD2-GUT-EX1.D	1		■	■	■	■	■		■	■	■	■		■		■		■		■	
KFU8-GUT-EX1.D	1		■	■	■	■	■		■	■	■	■		■		■		■		■	