

HART XL Interface Card

Part number 44782 - K165

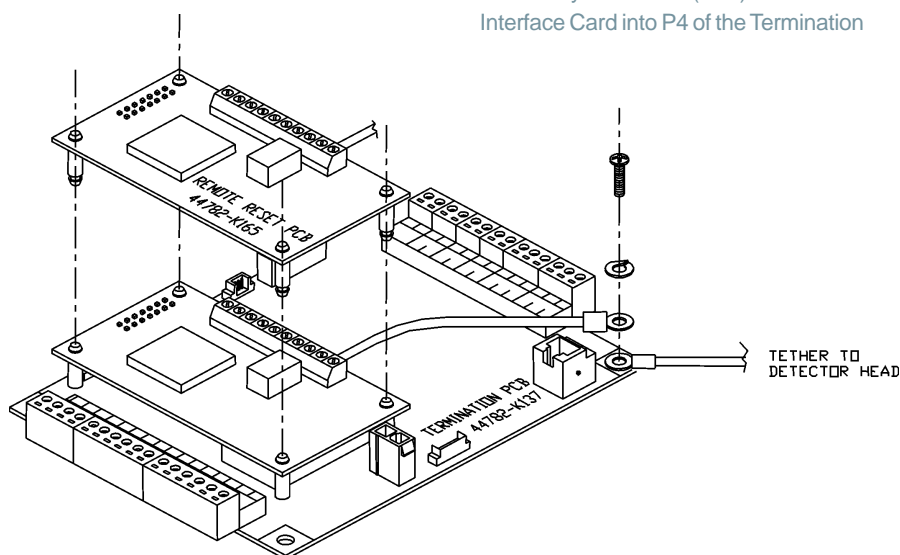


The Hart XL Interface Card (part number 44782-K165) provides a facility to monitor and control the operation of the HART XL Detection Unit (part number 53836-K183) without the use of either the LaserNet software or the HART XL Display Module (part number 53836-K182).

Features and benefits

- External Silence and Reset facilities
- 4-20mA output for monitoring of Smoke level
- 0-12mA output for monitoring of Airflow level
- Airflow Fault relay (2A 30v DC)
- On board LED indication of fault condition
- Easily installed on site

The Interface Card can be installed easily on site, as it simply attaches to the HART XL Termination Board (part number 44782-K137). This is achieved by inserting the 14way connector (PL2) of the Interface Card into P4 of the Termination



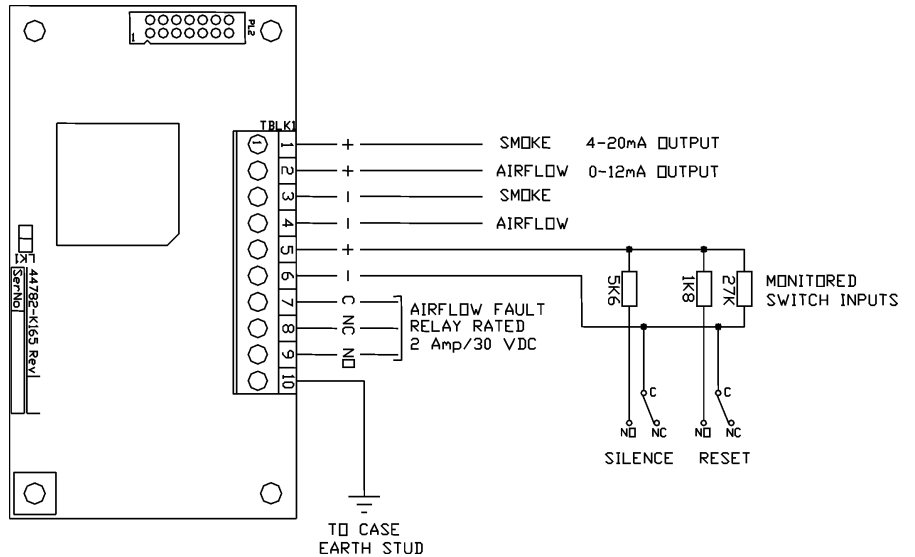
Board, via which it receives its power and communication signals. The Interface Card is provided with an installation kit which provides the necessary standoffs to allow the Interface Card to be adequately supported during installation. The illustration below shows how the Interface Card is fitted.

The Interface card provides a monitored output, which allows the monitoring of external Reset and Silence switches (momentary). An end of line resistor provides monitoring for open and short circuit conditions, in the event of which, a fault condition will be reported on the HART XL Detection Unit. The Silence Input option allows the Display Module internal buzzer to be silenced; the Reset input will clear the existing activation and return to normal status.

An individual 4-20mA output for Smoke level is provided to allow monitoring by a PLC. In quiescent condition the output will provide a 4mA output and during a fault condition of the Detection Unit, the output will drop to 0mA. This output will follow the detected smoke concentration and provide an output current accordingly (i.e. 50% smoke concentration = 12mA). An output of 20mA will be provided when the smoke reaches 100% smoke concentration.

An 0-12mA Airflow output is provided. During normal quiescent conditions the airflow output is 0mA, rising to 12mA during an Airflow fault condition. A Fault relay is also provided which will activate in the event of either a high or low airflow fault condition. The fault relay provides common, normally open and normally closed contacts which are rated at 2amp 30v DC.

An onboard link (LK1) allows the 4-20mA outputs to function normally, however this will disable the network output of the Detection unit (thus not allowing communications to a LaserNet network). If the link is removed the 4-20mA output will not operate and the LaserNet network output will function normally. The Detection Unit will need to be powered down and up to enable the link selection.



CAUTION

LASER HAZARD

THE DETECTOR IN THE ENCLOSURE IS A FACTORY-SEALED UNIT CONTAINING A CLASS 3B LASER PRODUCT WITH INVISIBLE RADIATION.



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

CAUTION ANTI-STATIC PRECAUTIONS

WHEN HANDLING ANY ELECTRONIC COMPONENTS OR CIRCUIT BOARDS ANTI-STATIC PRECAUTIONS MUST BE CARRIED OUT. FAILURE TO DO MAY RESULT IN COMPONENT DAMAGE.

HART XL Interface Card Technical Specification

Description	Specification	
Part Number	44782-K165	
Supply & Comms	Via P4 of Terminal Board (44782-K137)	
Quiescent current output	50mA	
Maximum current output	90mA	
Maximum cable size	1.5mm ² (solid core cable)	
Monitored output	End of line value	27K ohms
	Distance	1Km (maximum)
	Reset value	1K8 ohms
	Silence value	5K6 ohms
Airflow relay VFCO	2amps @ 30 VDC	
Ambient operating temp	0°C to 52°C	
Relative humidity	10% to 95%, non-condensing	
Weight (packed)	0.2 Kg	

Kidde Fire Protection

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