

FE interface unit, type T2X-24V

Technical Specification

Item number	526316
Colour	Grey
Ingress protection	IP65
Compatibility.....	UB01/UB02/ UB06
Dimensions	H×W×D (mm)95×150×63
Input	
Uin (operating voltage).....	+18 to +24 V DC
GND	0 V
Si+	+18 to +24 V
Si-	0 V ref. for discharge signal
Quiescent	≤ 200 mA
Active	≤ 820 mA
Fault NC	NC (max. 100 V, 300 mA)
Fault c	Reference for NC
Zi (discharge input)	4.7 kΩ
Output	
Uout (to Fire Eater system).....	+12 V DC
GND	0 V
Siout	12 V discharge signal
Fault in	12 V fault from discharge unit (0 V when normal)
Siout	max. 800 mA

General

T2X-24V interface is installed when other ABA fire alarm control panels are used to activate Fire Eater discharge systems and to monitor discharge circuits and cylinder pressure.

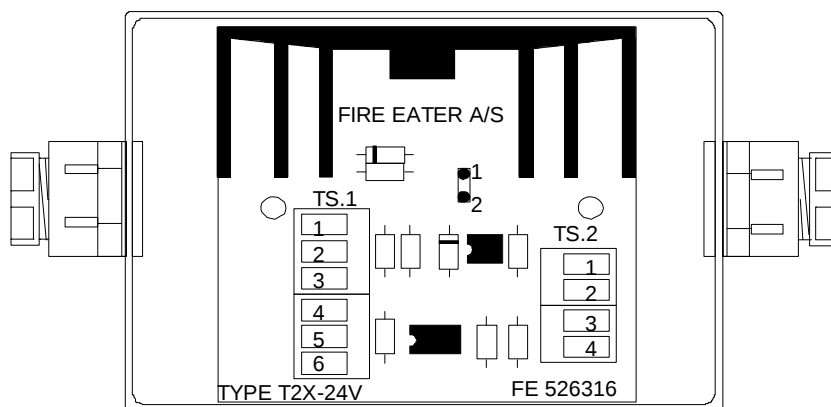
The interface acts as an adapter between the ABA system and the Fire Eater discharge system. If faults occur in the pressure switch or discharge circuit, a potential-free cutout signal is sent so that a fault is indicated by the ABA system.

The interface is designed for two types of discharge signals: direct discharge signal and reverse-polarity discharge signal. By using a reverse-polarity discharge signal, the system can be discharged and monitored by means of a two-core cable by installing a diode (1N4001) between terminals 5 and 6 as shown in the diagram below. The diode ensures that the signal reaches terminals 3 and 4 despite the interface indicating that a fault has occurred. The interface indicates faults by breaking the signal between terminals 5 and 6.

In order to use the interface with direct discharge signals, some systems require the discharge signal to be provided with a 1kΩ terminating resistor or as specified by the manufacturer of the ABA control panel.

As standard, impedance is 4.7 kΩ.

Connection examples on page 2.



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Rev: 21.12.06



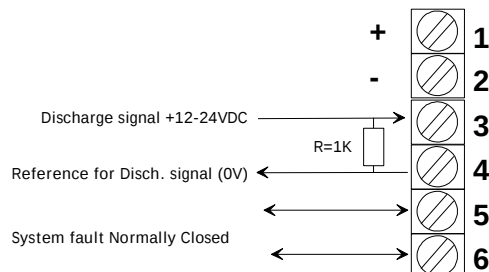
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DK- 3400 Hillerød
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Tekst

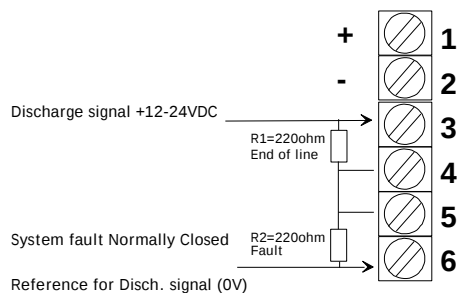
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Connection examples:

Direct discharge signal and separate system fault cable

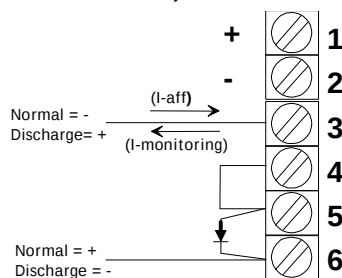


If the pressure switch or discharge circuit fails, the monitoring voltage will be disconnected between terminals 5 and 6.



If the pressure switch or discharge circuit fails, the end of line resistor will change from 220 to 440ohm.

Reverse-polarity discharge signal (shared discharge and system fault cable)



If the pressure switch or discharge circuit fails, the monitoring voltage will be disconnected between terminals 5 and 6, but polarity reversal allows the signal to pass through the diode.

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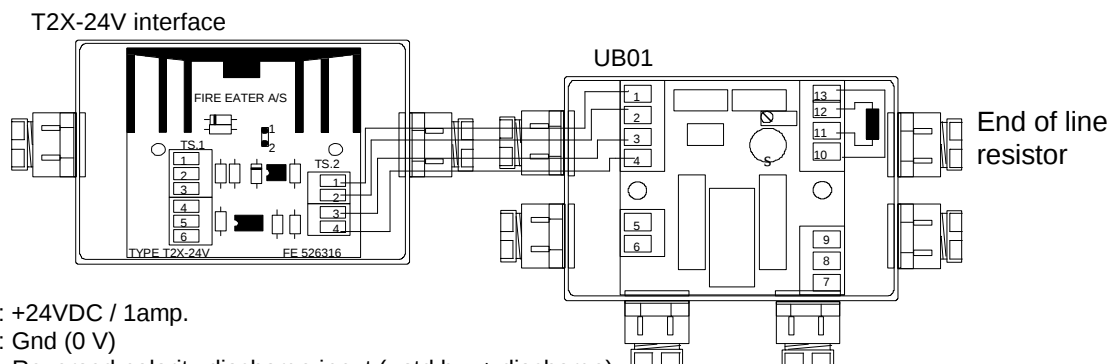
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Connections to discharge unit, type UB01



TS1.1 : +24VDC / 1amp.

TS1.2 : Gnd (0 V)

TS1.3 : Reversed polarity discharge input (- std.by, + discharge)

TS1.4 : Reversed polarity discharge input (+ std.by, - discharge)

TS1.5 : NC, potential-free fault output (max. 200mA, NC)

TS1.6 : NC, potential-free fault output (max. 200mA, NC)

TS2.1 : 12VDC

TS2.2 : Si discharge signal.

TS2.3 : Gnd (0 V)

TS2.4 : Fault return

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