

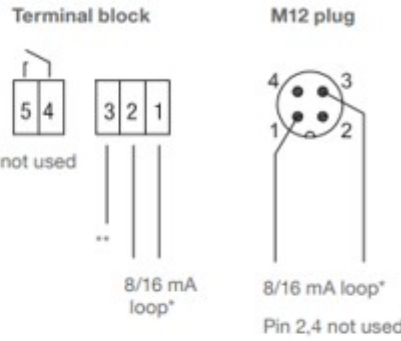
## Electrical installation - Relay DC and 8/16mA electronic

### Intrinsically safe version

**2-wire operation with 8/16 mA loop** **8/16 mA loop:**  
 10.8 .. 30 V DC, 0,7W  
 incl. 10% of EN 61010-1

Intrinsically safe supply required (barrier or signal conditioning instruments):  
 $U=30\text{ V}$   $I_L=160\text{ mA}$   $P_T=0,8\text{ W}$ ,  
 $C_T=7,6\text{ nF}$   $L_T=0,3\text{ mH}$

External resistor in loop:  
 The above stated voltage is the resulting voltage on the unit. Any voltage drop on an external series resistance must be considered.  
 $R_{max} = (V_{supply} - 10.8\text{ V}) / 16\text{ mA}$   
 Example: 24 V supply allows  $R_{max}$  of 825 Ohms

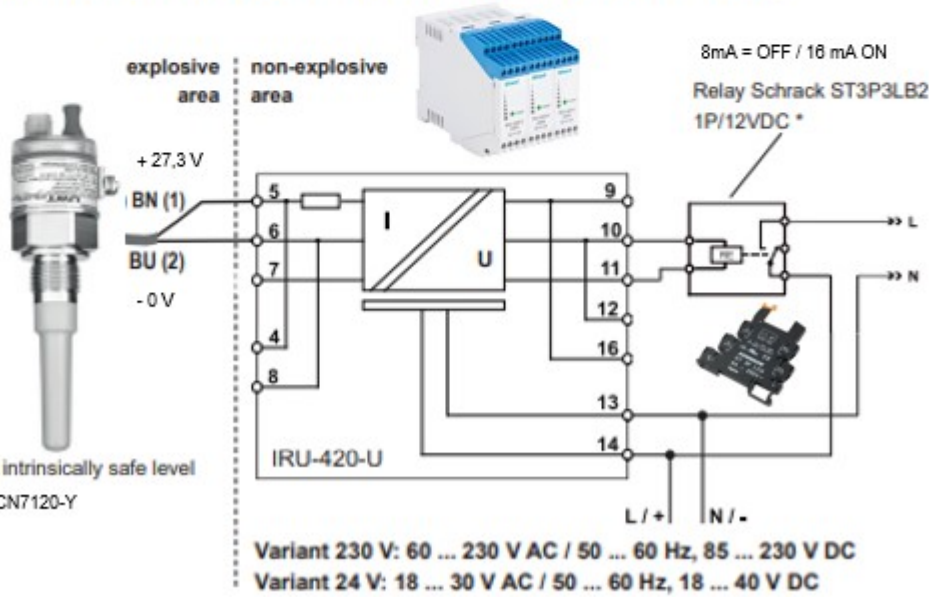


\* Polarity determines output logic  
 \*\* See "cable shield" below



**CN7120-Y**  
**ATEX Zone 0, 0/1, 20/21 Intrinsically safe**  
**Electronics signal 2-wire output 8/16 mA**

### **LIMIT LEVEL SENSOR (OUTPUT 4/20 MA) IN AN EXPLOSION HAZARD AREA.** **IRU-420-U UNIT WITH A VOLTAGE OUTPUT AND A TWO-STATE RELAY**



\* - Relay is connected to the unit via the IRU socket type ST3P3LB2 with LED indication.