

Accessory cable for sensors with build in plug (option C)

Accessory cable Z1*-*

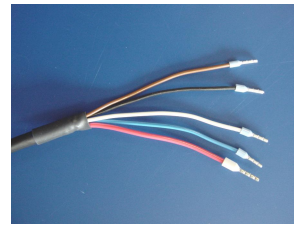
- Suitable for connection of all sensor types (diode, voltage output Y1, current output Y2)
- Cable material: PVC-cable 4 x 0,34 mm², shielded
- Available in standard length of 5 and 8 m, special length please see accessory cable Z3*-*
- Socket M12x1 potted on the cable, on request socket with 90° angle possible (Z1W)
- IP67 if connected on sensor
- cable ends with crimping ferrules, on request for voltage output (-U, all wires separate) or for sensors with diode and current output (-I, colours bundled), see table



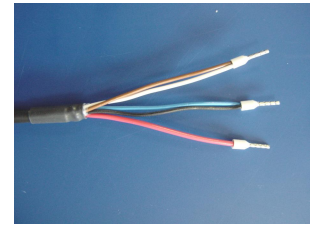
Z1G-*



Z1W-*



cable ends Z1*-U



cable ends Z1*-I

Accessory cable Z2*

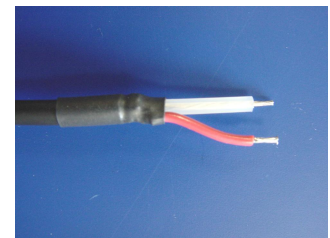
- Suitable for sensors with diode without implemented amplifier (without option Y1 and Y2).
- Especially for cable length > 5 m
- Cable material: Coaxial cable RG 58 C/U
- Standard length 5 m from stock, longer on request possible
- Socket M12x1 screwed on the cable, on request socket with 90° angle (Z2W)
- IP67 if connected on sensor
- Cable ends welded, inside cable: cathode, shield: anode, see table



Z2G-*



Z2W-*



cable ends

Accessory cable Z3*-*

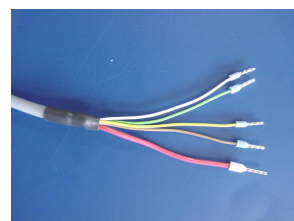
- Suitable for all sensor types (diode, voltage output Y1, current output Y2) for cable length > 5 m
- Cable material: PVC-cable LIYCY 4 x 0,14 mm², shielded
- Available in length of 10 and 20 m, other length on request possible.
- Socket M12x1 screwed on the cable, on request socket with 90° angle (Z3W)
- IP67 if connected on sensor
- cable ends with crimping ferrules, on request for voltage output (-U, all wires separate) or for sensors with diode and current output (-I, colours bundled), see table



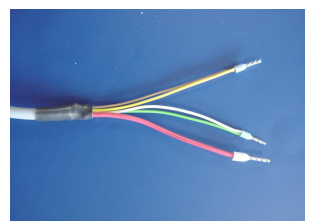
Z3G-*



Z3W-*



cable ends Z3*-U



cable ends Z3*-I

Wiring of the UV Sensor

sensor type Diode	wiring	cable Z1G-I standard length 5 m and 8 m available	cable Z2 standard length 5 m other length possible	cable Z3G-I standard length 5 m other length possible	cable on sensor
Cathode (27)	Pin 1	brown/ white	white (inner conductor)		white (inner conductor)
Cathode (27)	Pin 2	white / brown	white (inner conductor)	not recommended	white (inner conductor)
Anode (28)	Pin 3	blue/black	red (shield)	Z2 has a better shielding	red (shield)
Anode (28)	Pin 4	black /blue	red (shield)		red (shield)
	Pin 5 centre contact	not used	not used		not used
shield	shield	red (connected with body)	-	red	red (connected with body)

sensor type Y1 - voltage output	wiring	cable Z1G-U standard length 5 m and 8 m available	cable Z2 standard length 5 m other length possible	cable Z3G-U standard length 5 m other length possible	cable on sensor
Signal Output (24 bzw. 23)	Pin 1	brown		yellow	yellow
GND (26 bzw. 21)	Pin 2	white		brown	white
-UB (13) <small>(internally connected to GND)</small>	Pin 3	blue	not applicable	green	green
+UB (14)	Pin 4	black		white	brown
not used	Pin 5 centre contact	not used		not used	not used
	shield	red (connected with body)		red	red (connected with body)

sensor type Y2 - current output	wiring	cable Z1G-I standard length 5 m and 8 m available	cable Z2 standard length 5 m other length possible	cable Z3G-I standard length 5 m other length possible	cable on sensor
+UB (14)	Pin 1	brown/ white		yellow / brown	yellow / brown
+UB (14)	Pin 2	white / brown		brown / yellow	brown /yellow
Iout (25)	Pin 3	blue/black	not recommended	green/ white	green / white
Iout (25)	Pin 4	black /blue		white / green	white / green
not used	Pin 5 centre contact	not used		not used	not used
shield	shield	red (connected with body)		red	red (connected with body)

in brackets() is shown the Pin-Nr. of the UVT16.1 monitor

Important Note:

For all sensors with option C and firmly connected cable the shield is connected to the sensor housing. Avoid ground loops with a grounded reactor, as it may damage the equipment!

Accessory cable Z1 and sensor with firmly connected cable → Don't connect to ground!

The shield of the cable is connected to the metal ring of the jack. Thus, the shield of the cable receives the ground potential of the sensor/reactor.

Don't connect the monitor with the earth/ground if there are other ground potentials. Since the reactor and the monitor usually are grounded separately, the shield must not be connected to the monitor! Otherwise ground loops arise.

Grounding of the reactor via the sensor cable is not allowed!

Accessory cable Z3 → Must be connected to ground (usually)

The shield of the cable Z3 and the sensor/reactor are electrically isolated because the ring of the jack consists of plastics. Connect the monitor to earth/ground to activate the screening effect!