

LCJ1-1

LCJ1-2

LCJ1-3

OPERATING INSTRUCTIONS (EN)

CABLE CONNECTOR

GENERAL

This user manual is part of the product.

- Read the manual before use.
- Store the manual for further use.
- Please report on any discrepancies in the manual to the manufacturer.

Labkotec reserves the right for changes of this manual due to continuous product development.

SAFETY

The operator of the system is responsible in terms of planning, mounting, commissioning, operating and maintenance.

Assembly, commissioning, operation, maintenance and dismantling of any devices may only be carried out by trained, qualified personnel who have read and understood the instruction manual.

Laws, standards, or directives applicable to the intended use must be observed. In relation to explosive areas, Directive 2014/34/EU must be observed.

The devices are only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

The device must only be operated in the ambient temperature range specified.

DELIVERY, TRANSPORT AND STORAGE

Check the packaging and contents for damage.

Check that the parts are all present and correct with respect to the order and shipping documents.

Note the permitted storage temperature in technical specifications.

INTENDED USE

Cable connectors LCJ1-1, LCJ1-2 and LCJ1-3 are designed to extend sensor cables in potentially explosive atmospheres, especially together with oil separator alarm devices.

Products

LCJ1-1	Cable connector for one sensor
LCJ1-2	Cable connector for two sensors
LCJ1-3	Cable connector for three sensors

LCJ1-1 is designed to extend an unshielded two-wire sensor cable to one unshielded two-wire extension cable.

LCJ1-2 is designed to extend two unshielded two-wire sensor cables to one unshielded two-wire extension cable.

LCJ1-3 is designed to extend three unshielded two-wire sensor cables to one unshielded two-wire extension cable.

MOUNTING AND INSTALLATION

Detailed connection diagrams are available in the manuals of sensors and control units.

NOTE! Despite degree of protection IP68, condensation can form in the device under conditions of high humidity and large temperature fluctuations. We therefore recommend that the inside of the cable connector be filled with gel or resin.

REPAIR AND MAINTENANCE

The devices may not be repaired, changed or manipulated. If there is a defect, the product must always be replaced with an original part.

DISPOSAL

Devices, packaging material, and possibly contained batteries must be disposed of in compliance with the applicable laws and guidelines of the corresponding country.

TECHNICAL SPECIFICATIONS

	LCJ1-1	LCJ1-2	LCJ1-3	
Dimensions	Ø 30 x 145 mm	Ø 35 x 145 mm	Ø 35 x 145 mm	
Weight	70 g	85 g	85 g	
Temperature	Ambient temp.: -20 ... +60°C, Storage temp.: -20 ... +60°C			
Protection	IP68			
Ex-classification	Simple apparatus according to IEC/EN 60079-11 (Intrinsic Safety i) Ⓢ II 1G Ex ia IIB T4 Ga Ui = 30 V, Ii = 500 mA, Pi = 1 W, Ta = -20°C ...+60°C			
Components (see Figures below)				
(1)	Housing	ST 4000 ATEX, black, antistatic		
(2)	Terminal blocks	2 pcs, 2-pole, core cross section 0,14-2,5 mm ²	2 pcs, 3-pole, core cross section 0,14-2,5 mm ²	2 pcs, 3-pole, core cross section 0,14-2,5 mm ²
(3)	O-rings (*)	2 pcs, 17 x 1,5 (NBR70)	2 pcs, 22 x 2,0 (NBR70)	2 pcs, 22 x 2,0 (NBR70)
(4)	Cable glands (*)	2 pcs, M20 x 1,5, PA, for cable diameter 4-9 mm, single-hole seal (CR)	1 pcs, M25 x 1,5, PA, for cable diameter 5-13 mm, single-hole seal (CR) 1 pcs, M25 x 1,5, PA, with 2-hole seal (2 x 5 mm holes, NBR70)	1 pcs, M25 x 1,5, PA, for cable diameter 5-13 mm, single-hole seal (CR) 1 pcs, M25 x 1,5, PA, with 3-hole seal (3 x 5 mm holes, NBR70)

(*) O-rings and seals of cable glands are mineral oil resistant



Figure 1. LCJ1-1 cable connector

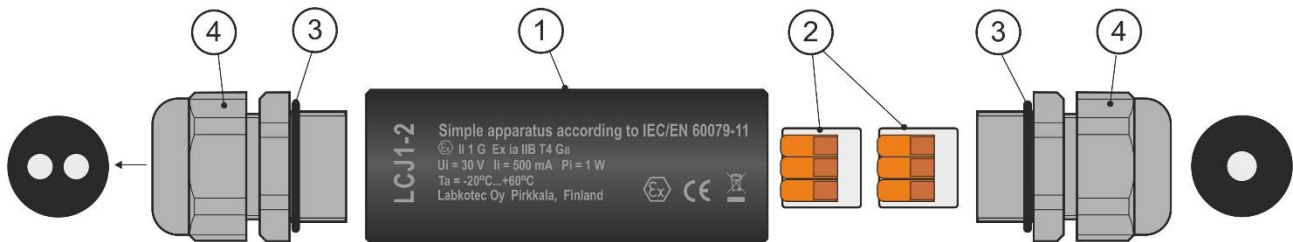


Figure 2. LCJ1-2 cable connector

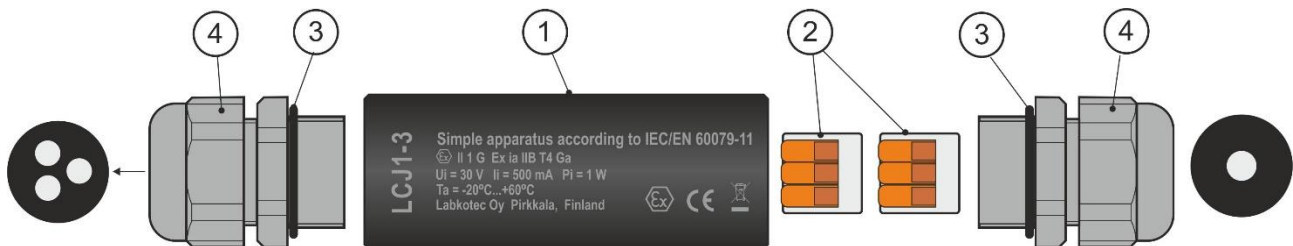


Figure 3. LCJ1-3 cable connector

CONNECTIONS SENSOR CABLE(S) / EXTENSION CABLE

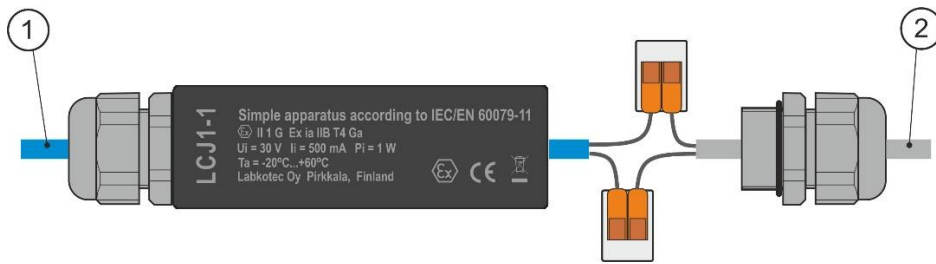


Figure 4. LCJ1-1 cable connector

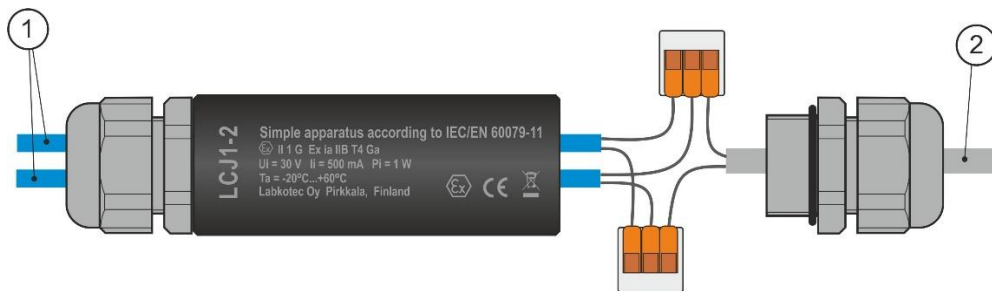


Figure 5. LCJ1-2 cable connector

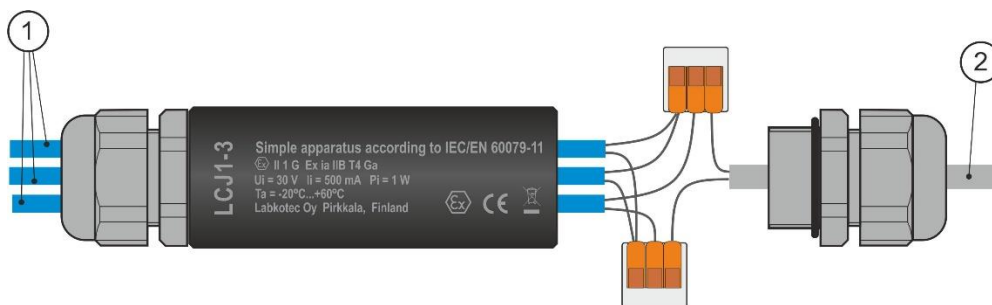


Figure 6. LCJ1-3 cable connector

(1)	Sensor cable(s) unshielded
(2)	Extension cable unshielded
Note!	If shielded cable is used, shield must be cut and insulated properly

Labkotec Oy
 Myllyhaantie 6
 FI-33960 Pirkkala
 FINLAND
 Tel. int. +358 (0)29 006 260
 Email: info@labkotec.fi

Labkotec AB
 Ekbacksvägen 28
 SE-168 69 Bromma
 SWEDEN
 Tel. int. +46 (0)8 130 060
 Email: info@labkotec.se

Labkotec GmbH
 Technologiezentrum
 Lise-Meitner-Strasse 2
 24941 Flensburg
 GERMANY
 Tel. int. +49 (0)461 9992 410
 Email: info@labkotec.de