

OPERATING INSTRUCTIONS

MONTRAC COMPONENTS

TouchPanel

BA-100084

Starting with serial number 441394

English, Edition 05/2009

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1. Important Information

1.1. Introduction

These operating instructions describe the mechanical structure, technical data, load limits, assembly, maintenance, and spare parts of the TouchPanel.

1.2. Declaration of installation

Pursuant to EC Machinery Directive 98/37/EC, Appendix II B.
Pursuant to EC Machinery Directive 2006/42/EC, Appendix II B.

Manufacturer:
Montech AG, Gewerbestrasse 12 CH-4552 Derendingen
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1.2.1. Function

The TouchPanel is an input device used to equip manual workstations. The operator uses the intuitive touchscreen to enter the next station to be approached. The principle is based on chaos technology.

The TouchPanel with digital IOs can also be used as a small control unit.

The load limits specified in the technical data of the TouchPanel must be observed under all circumstances. Overloads can result in defects and device failure.

The TouchPanel is designed to be installed in a Montrac system or installed with other elements of a Montrac system in compliance with EC Machinery Directive 98/37/EG and 2006/42/EG.

1.2.2. Mounting instructions

The mounting instructions in compliance with EC Machinery Directive 2006/42/EG, Appendix VI, are available in the Instruction Manual.

1.2.3. Guidelines fulfilled by the TouchPanel

The individual components of the TouchPanel are not subject to the regulations of the Machine Directive.

However, we would like to point out that the Montrac System must not be put into operation until it has been determined that the Montrac system in which the TouchPanel has been installed conforms to the stipulations of EC Machine Directive 98/37/EG and 2006/42EG.

1.2.4. Application Scope of the Operating Instructions

We always adapt our products to the state-of-the-art and new findings from practical applications. Therefore, the operating instructions are updated to match the product modifications. Every Instruction Manual has an article number e.g. BA-100084. The article number and the date of edition are specified on the title page.

Validity period

Name	Item number
TouchPanel with IOs (8 inputs, 8 outputs)	58223
TouchPanel without IOs	58282

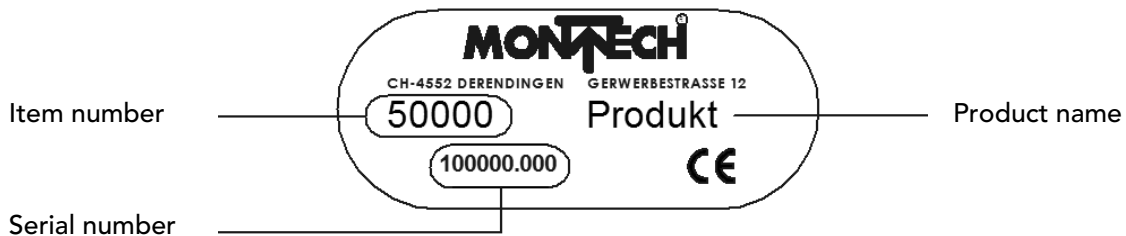
1.2.5. Additional Information

These operating instructions are designed to ensure the safe and proper use of the TouchPanel. If you need information in any individual case, please contact the manufacturer.

Special technical documentation according to 2006/42/EG, Appendix VII, Part B, can be provided at any time and digitally communicated.

When ordering operating instructions, please always include the series number. This document is available from our home page, www.montech.com.

Nameplate description



Montech AG
Senior Management

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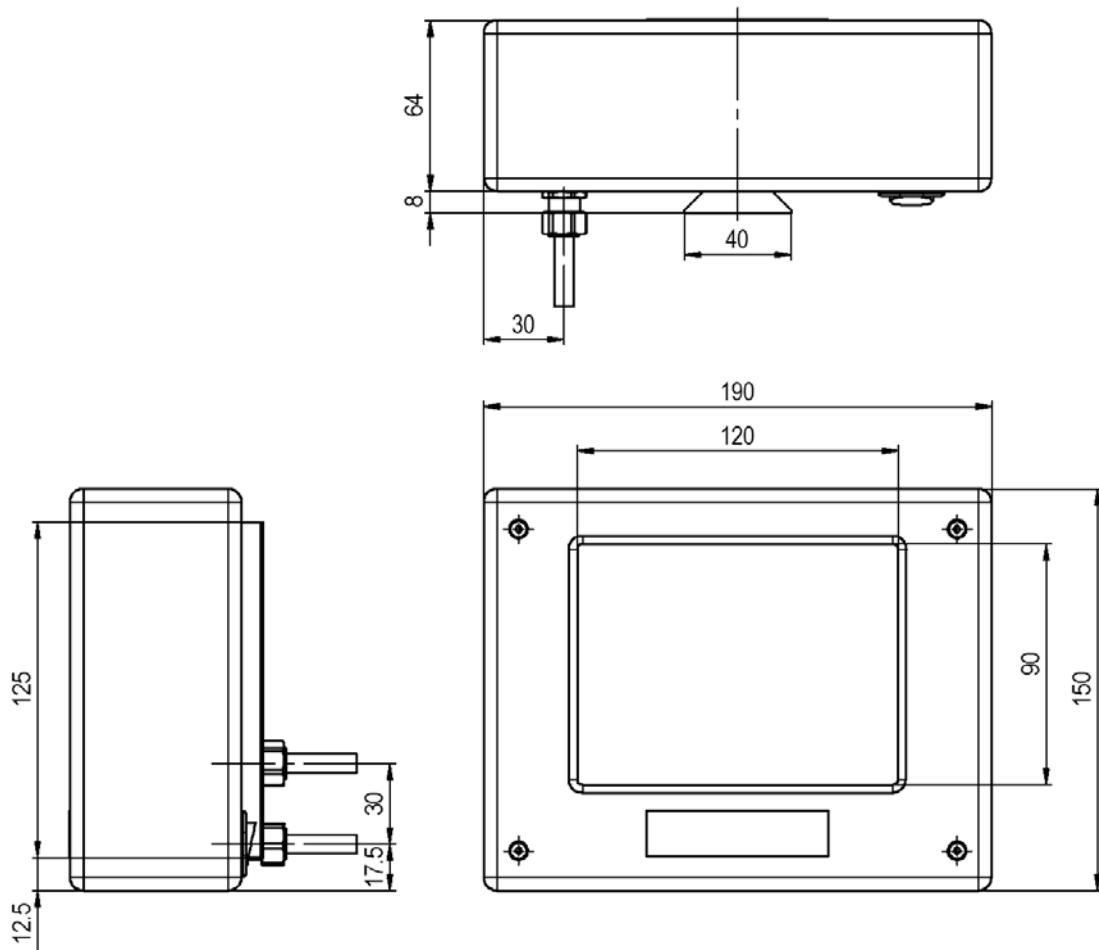
2. Technical Data

2.1. TouchPanel Technical Data

Item number		58282	58223
Height	[mm]	150	150
Width	[mm]	190	190
Depth	[mm]	64	64
Weight	[kg]	1.7	1.7
Input voltage	[VDC]	24	24
Current consumption (at 24 VDC)	[mA]	165	165
Min. input voltage	[VDC]	-	20
Max. input voltage	[VDC]	-	28
Current consumption per input	[mA]	-	5
output voltage	[VDC]	-	Input voltage
Max. output current per output	[mA]	-	500
Material		Aluminum, copper, steel, plastic, rubber	
Warranty		2 years, starting with the delivery date	
Protection class		IP 40	
Environment: Temperature	[°C]	10 – 40	
Rel. air humidity		5%-85% (without formation of condensation)	
Air purity level		Normal shop air	

2.2. Accessories

Name	Item no.
IRM Basic (IRM, Y-Cable, AB- and A-Cam)	56936
Basic Kit (Single Box and connection cable)	56937
IRM configuration AutoLock	56944
SupoTrac (with ShuttleLock)	56933
ErgoTrac (with ShuttleLock)	56952
EV-3/45-40	45241N
TP-16-40	44207NXXXX
AK-16-40	44871
EV-3-40	44608N
KEV-40	46199N
SLL-55-40	40201N
KFM-40	45229NXXXX

2.3. Dimensional Drawing

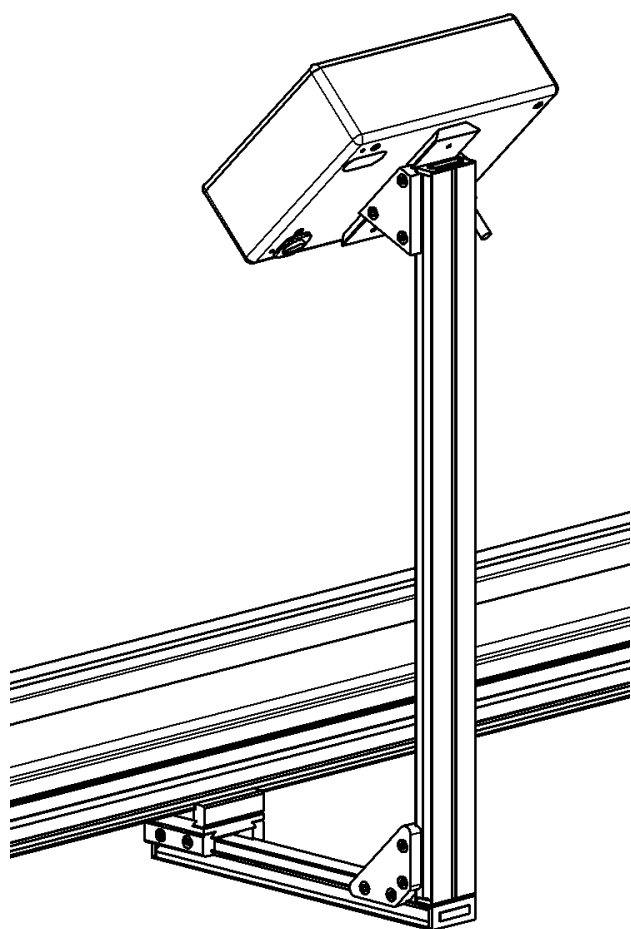
3. Installation

3.1. Installation Position and Mounting

The TouchPanel can be installed in any position.

Assemble with Quick-Set fastening elements on the dovetail on the back (item 30).

Securing suggestion



3.2. Cable Connections and Wiring

Schematics for TouchPanel with IO

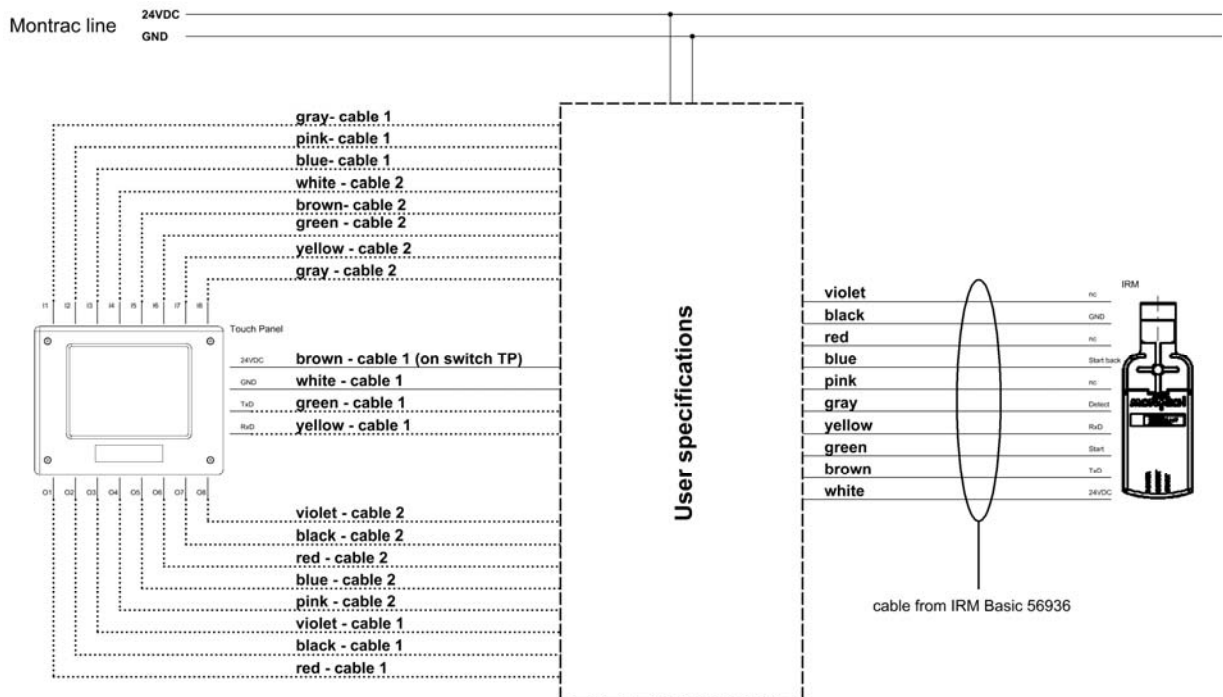


Table of connection cables for TouchPanel with IOs

Description	Cable	Conductor color
24VDC	Cable 1	brown
GND	Cable 1	white
TxD (RS-232)	Cable 1	green
RxD (RS-232)	Cable 1	yellow
Input 1	Cable 1	gray
Input 2	Cable 1	pink
Input 3	Cable 1	blue
Input 4	Cable 2	white
Input 5	Cable 2	brown
Input 6	Cable 2	green
Input 7	Cable 2	yellow
Input 8	Cable 2	gray
Output 1	Cable 1	red
Output 2	Cable 1	black
Output 3	Cable 1	violet

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Output 4	Cable 2	pink
Output 5	Cable 2	blue
Output 6	Cable 2	red
Output 7	Cable 2	black
Output 8	Cable 2	violet

Schematics of TouchPanel without IOs

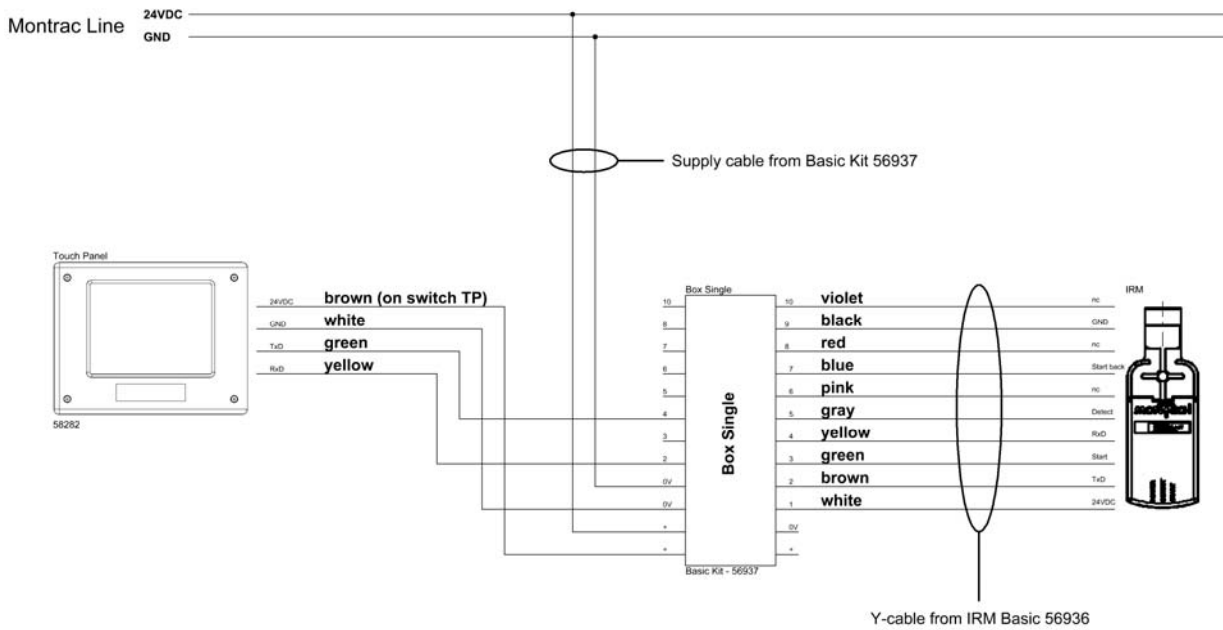


Table of connection cables for TouchPanel without IOs

Description	Conductor color
24VDC	brown
GND	white
TxD (RS-232)	green
RxD (RS-232)	yellow

4. Commissioning

4.1. Startup

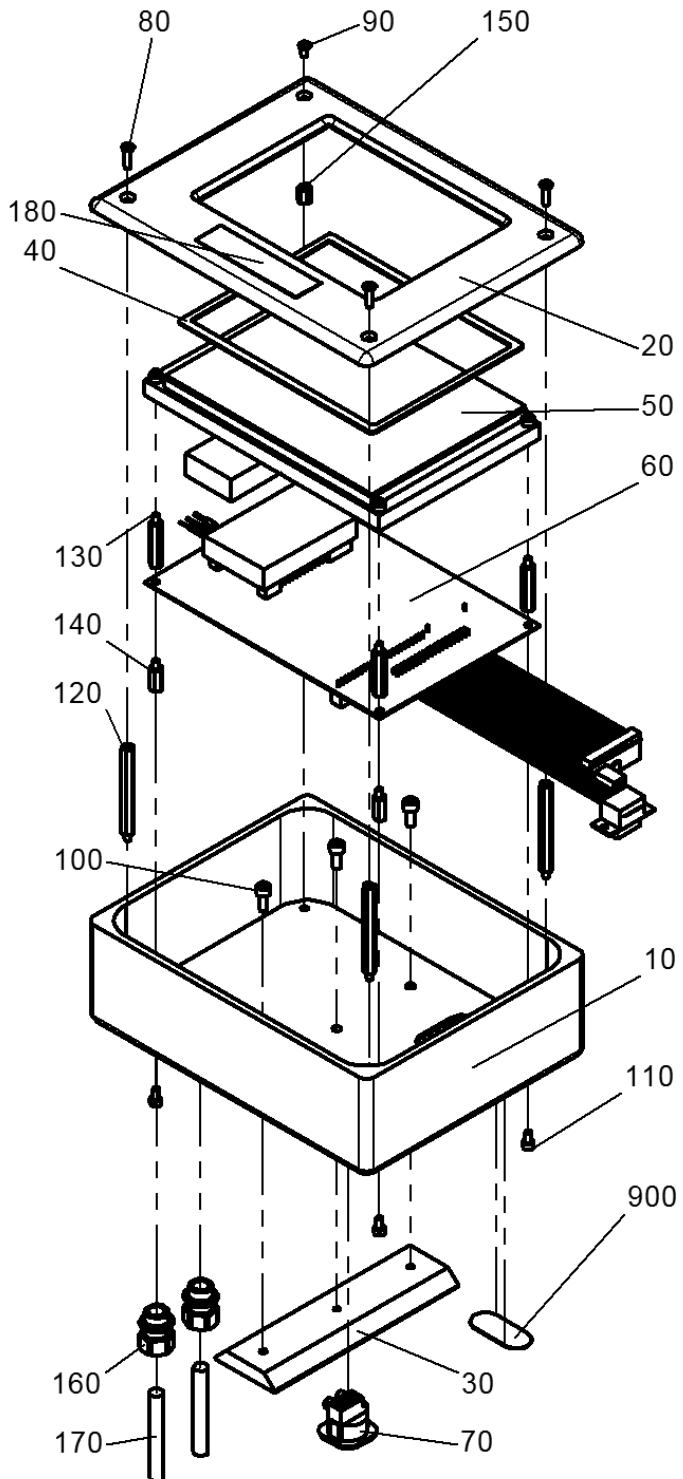
After pressing the switch (item 70), you will be prompted to calibrate the TouchScreen.

Subsequently press the center of the crosses shown on the screen, bottom left, top right, and in the center. If the calibration is inaccurate, it must be repeated.

Once calibration has been accepted, the program starts and the panel is ready for operation.

5. Parts Lists

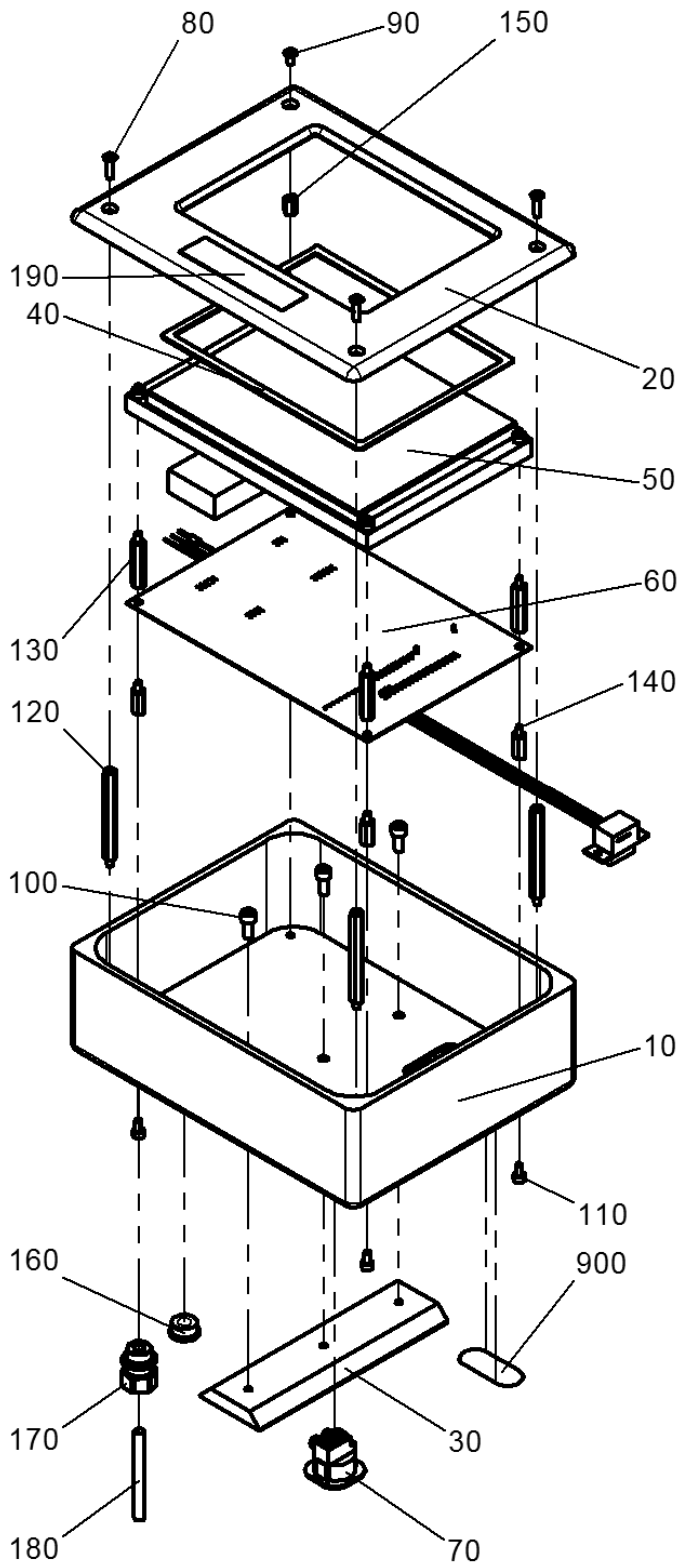
5.1. TouchPanel with IOs



Item	Sym.	Name	Item no.	Material
	■	TouchPanel with IOs	58223	Various
10	◇	Housing	58221	Aluminum
20	◇	Cover	58222	Aluminum
30	◇	Adapter profile	58214	Aluminum
40	◇	Flat seal	58216	Elastomer
50	◇	TP1000-X-T1 Wilke	510030	Various
	•	Display	520666	Various
60	•	Print TouchPanel with IOs	58219	Various
	•	LogiTouch Modul	520628	Various
70	◇	Rocker switch	520343	Various
80	◇	Hexagon flat head bolt M3x12	520389	Steel
90	◇	Hexagon flat head bolt M3x6	504795	Steel
100	◇	Hexagon pan head screw M4x10	508471	Steel
110	◇	Hexagon pan head screw M3x6	520043	Steel
120	◇	Hexagon spacer M3x50	520193	Steel
130	◇	Hexagon spacer M3x25	520211	Steel
140	◇	Hexagon spacer M3x12	520476	Steel
150	◇	Hexagon spacer M3x8	520478	Steel
160	◇	Cable fitting M12x1.5, 6.5-8.0, short	520487	Various
170	◇	Cable 10x0.25mm ² , DIN 47100	520490	Various

- These are wearing parts and available ex stock.
- ◇ Not available ex stock individually (upon request)
- Price list item available ex stock

5.2. TouchPanel without IOs



Item	Sym.	Name	Item no.	Material
	■	TouchPanel without IOs	58282	Various
10	◇	Housing	58221	Aluminum
20	◇	Cover	58222	Aluminum
30	◇	Adapter profile	58214	Aluminum
40	◇	Flat seal	58216	Elastomer
50	◇	TP1000-X-T1 Wilke	510030	Various
	•	Display	520666	Various
60	•	Print TouchPanel without IOs	58281	Various
	•	LogiTouch Modul	520628	Various
70	◇	Rocker switch	520343	Various
80	◇	Hexagon flat head bolt M3x12	520389	Steel
90	◇	Hexagon flat head bolt M3x6	504795	Steel
100	◇	Hexagon pan head screw M4x10	508471	Steel
110	◇	Hexagon pan head screw M3x6	520043	Steel
120	◇	Hexagon spacer M3x50	520193	Steel
130	◇	Hexagon spacer M3x25	520211	Steel
140	◇	Hexagon spacer M3x12	520476	Steel
150	◇	Hexagon spacer M3x8	520478	Steel
160	◇	Plug M12x1.5	520486	Steel
170	◇	Cable fitting M12x1.5, 3.5-5.0, short	520488	Various
180	◇	Cable 4x0.25mm ² , DIN 47100	520489	Various

- These are wearing parts and available ex stock.
- ◇ Not available ex stock individually (upon request)
- Price list item available ex stock

6. General Information

6.1. Environmental Compatibility and Disposal

Materials used:

- Aluminum
- Copper
- Steel
- Polyethylene (PE)
- Polyamide (PA)
- Polyurethane (PUR)
- Polyvinyl chloride (PVC)
- Polycarbonate (PC)
- Elastomer (EPDM)

Surface treatment:

- Anodizing of aluminum
- Electrical nickel-plating of steel
- Galvanizing of steel

Forming processes:

- Aluminum extrusion
- Cutting of aluminum and plastics
- Injection molding of plastics

Disposal:

TouchPanels that can no longer be used should not be recycled as entire units but disassembled and then recycled according to the material types used. The material type of each component is listed in the spare parts lists. Material that cannot be recycled must be disposed of in the appropriate manner.