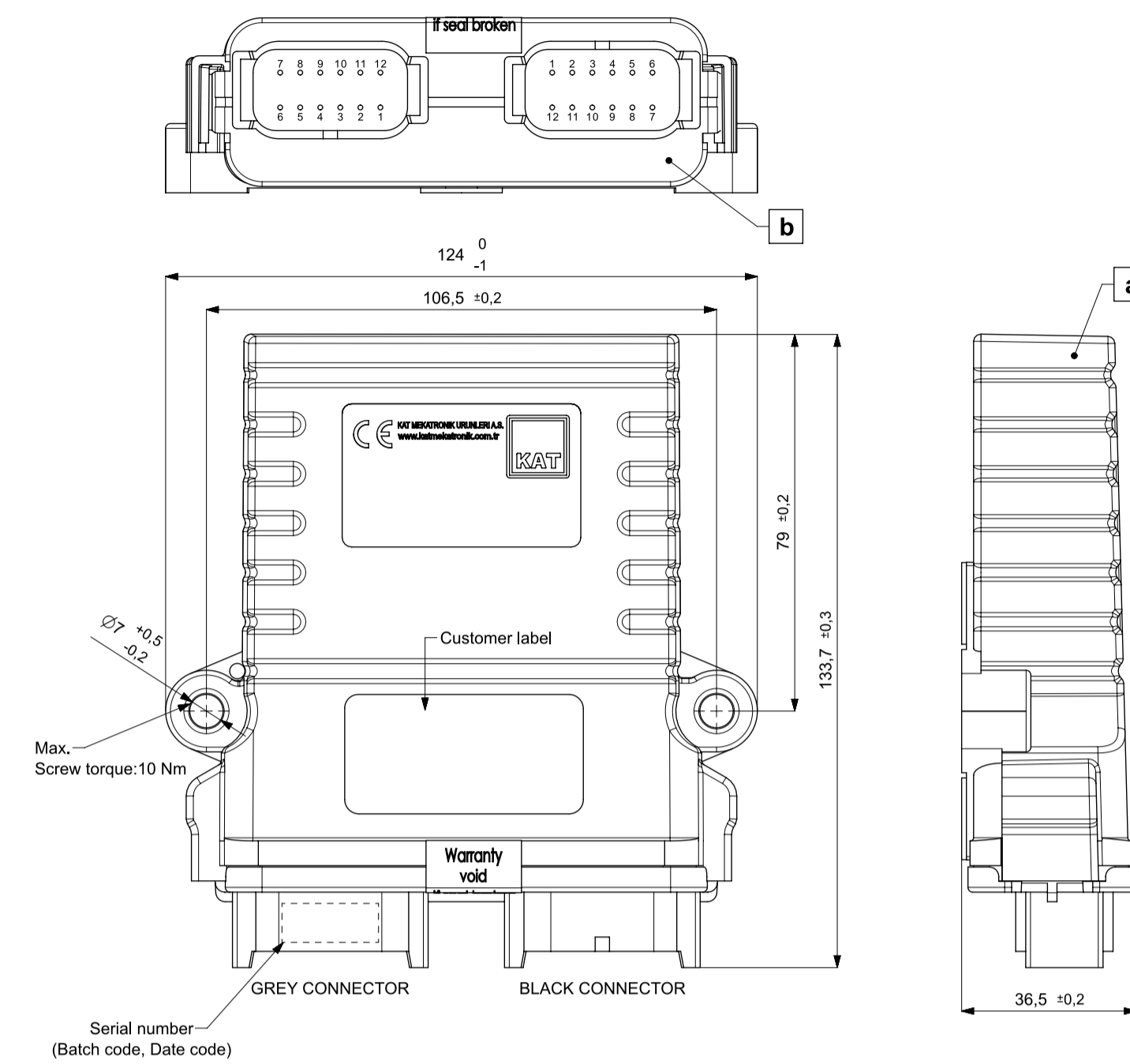


KAT MEKATRONİK / KAT MECHATRONICS

Notlar/ Notes

- IMPORTANT REMARKS
- * The standard cable type and length is shown on the drawing unless otherwise requested by the customer.
 - * KAT Immobilizer will only be activated by KAT Ignition Switch, Therefore please choose Ignition Switch type from the drawing number 95002. Attention: Please do not make a choice for key color. Immobilizer keys standardly produced in blue, master in red color
 - * Before machine installation please consider "KAT Immobilizer ECU Environment Interaction Notes.pdf"



PIN-OUT TABLE KEYPAD VERSION

BLACK CONNECTOR		GREY CONNECTOR	
PIN	FUNCTION	PIN	FUNCTION
1	RELAY 3A - (COM)	1	KEY 7
2	RELAY 3B - (NO)	2	KEY 6
3	RELAY 2A - (COM)	3	KEY 5
4	RELAY 2B - (NO)	4	KEY 4
5	RELAY 1 - (NO)	5	KEY 3
6	RELAY 2 - (NC)	6	KEY 2
7	+12VDC BAT	7	KEY 1
8	IGNITION 15/54	8	KEY 0
9	CAN-H	9	GND
10	CAN-L	10	LED - DRW
11	GND - (-)	11	NC
12	RELAY 1 - (COM)	12	NC

PIN-OUT TABLE ANTENNA VERSION

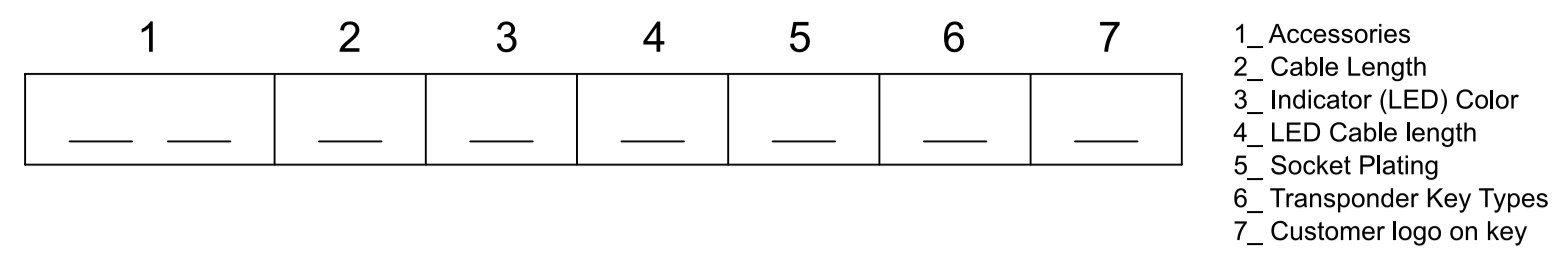
BLACK CONNECTOR		GREY CONNECTOR	
PIN	FUNCTION	PIN	FUNCTION
1	RELAY 3A - (COM)	1	NC
2	RELAY 3B - (NO)	2	NC
3	RELAY 2A - (COM)	3	NC
4	RELAY 2B - (NO)	4	NC
5	RELAY 1 - (NO)	5	NC
6	RELAY 2 - (NC)	6	NC
7	+12VDC BAT	7	NC
8	IGNITION 15/54	8	NC
9	CAN-H	9	GND
10	CAN-L	10	LED - DRW
11	GND - (-)	11	ANT-2 (Signal)
12	RELAY 1 - (COM)	12	ANT-1 (Shield)

TECHNICAL REMARKS

- Electrical Data**
 Voltage range : 6-32V
 Nominal voltage : 24V and 12V
 Temperature range : -40°C to +85°C
 Stand-by current : <1 mA
- Relay outputs**
 Maximum voltage : 32V
 Output : Electromechanical Relay
 Continuous current : 5A(HI-C) / 1A(LO-C)
 Voltage drop : typically 30mV
- CAN BUS : CAN2.0B (250k to 1Mbps) SAEJ1939
- RF Module**
 Transmission frequency : typically 134.2 kHz
 Modulation : FSK
 Max. Key memory : 100 keys*(incl. Master key)
- *Key memory is available up to 200 keys with DST transponder
- Protection level acc. to
 ANTENNA IP69
 ECU IP69
 Keypad IP69

Item	Designation	Material	Color
a	Housing	PA66 GF30	Black
b	DEUTSCH Connector (NICKEL)	DTM13-12PA-12PB-R008	
	DEUTSCH Connector (GOLD)	DTM13-12PA-12PB-GR01	

ORDERING SCHEME



1 ACCESSORIES

Keypad
 Design complies with VDE 0814 and 0812
 DEUTSCH CONNECTOR DTM06-12SA

Below Dashboard
 WITHOUT LED: DEUTSCH CONNECTOR DTM06-12SA, Conduit Art. Nr. 1926120 (Ø12)
 WITH LED: DEUTSCH CONNECTOR DTM06-12SA, Conduit Art. Nr. 1926304 (Ø4.5), Temperature rating: -40°C / +135°C

Above Dashboard With Cap
 WITHOUT LED: DEUTSCH CONNECTOR DTM04-4P, Conduit Art. Nr. 1926120 (Ø12)
 WITH LED: DEUTSCH CONNECTOR DTM04-4P, Red LED (Optional)

Above Dashboard Without Cap
 WITHOUT LED: DEUTSCH CONNECTOR DTM04-4P, Conduit Art. Nr. 1926120 (Ø12)
 WITH LED: DEUTSCH CONNECTOR DTM04-4P, Red LED (Optional)

2 CABLE LENGTH (A)

Antenna	Keypad
1 Customer specific	1 Customer specific
2 1000mm	2 1700mm
3 1700mm	3 2000mm
4 1800mm	
5 2000mm	
6 2200mm	
7 2500mm	

- * Please contact KAT customer representative for other cable length requirements
- * Cable longer than 2500 mm is not applicable
- * Selected cable length includes extension cable for Antenna Type-3 and Type-4

3 INDICATOR (LED) COLOR

A Without
B Red
C Yellow
D Green

* Flying lead indicator LED is only available with Below Dashboard Antenna

4 LED CABLE LENGTH

1 Without LED
2 Customer specific
3 1000mm
4 1700mm
5 1800mm
6 2000mm
7 2200mm
8 2500mm

5 SOCKET PLATING

A GOLD
B NICKEL

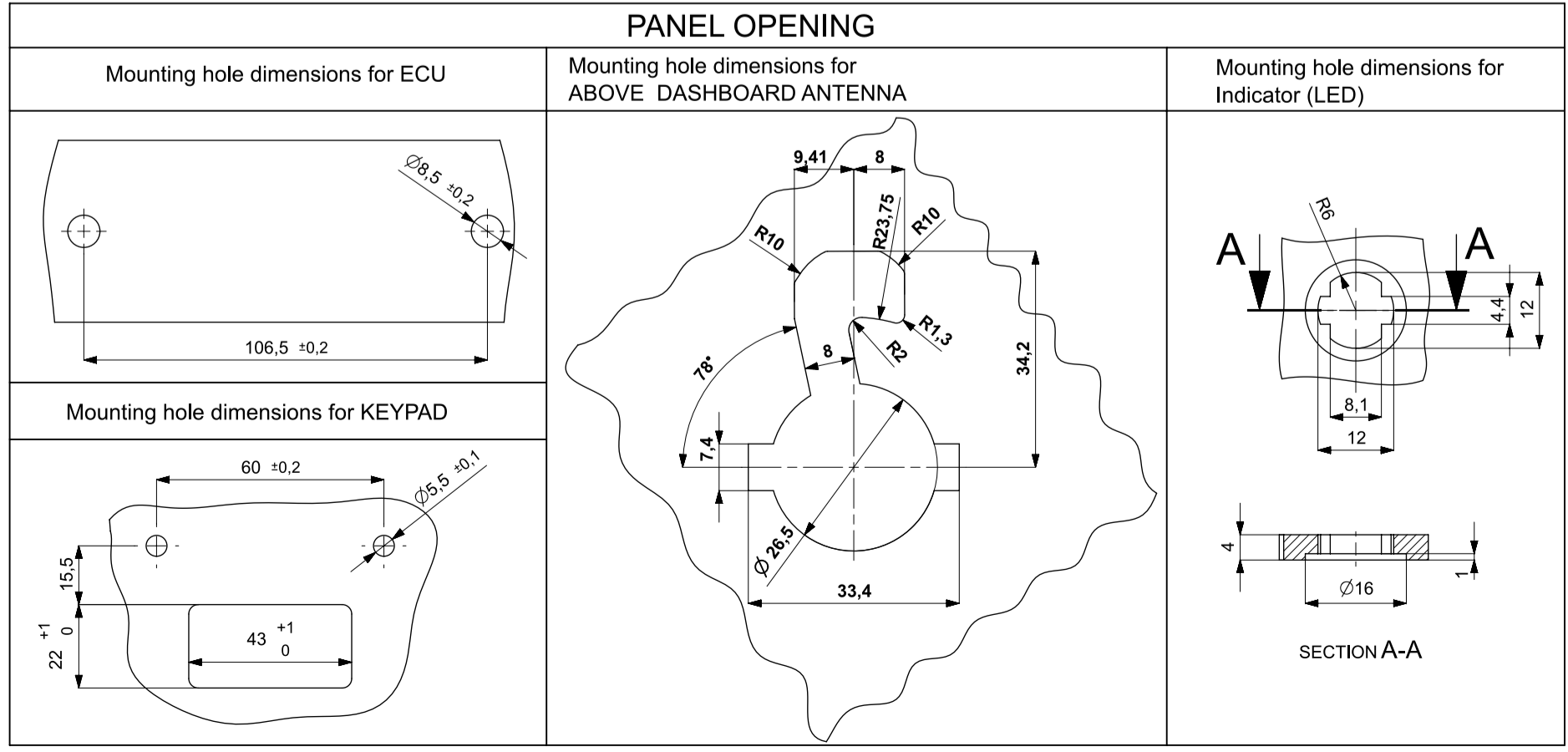
6 TRANSPONDER KEY TYPES

L 606
M 607
N 608
P 0-250
R 602
S 603
T 0-250
U 609
V 610
W 628
Y Customer specific
Z No Key

7 CUSTOMER LOGO ON KEY

1 WITH
2 WITHOUT

* Transponder key is not required if Keypad selected



Rev. No.	Konum Section	Tarih Date	İsim Name	Revizyon tarihi / Revision description	Tarih / Order No.

Parça Durumu / Part Status: Seti / Series

KAT tarafından üretilen bu ürünün tasarım ve imalatı, KAT'ın mülkiyetindedir ve bu nedenle başka kullanımlara kullanılmadan önce KAT'ın izni alınmalıdır. KAT reserves all rights, including without limitation rights of invention, copyrights, rights to names and the right to apply for industrial property rights. All rights of use and exploitation including the right to copy and disseminate or distribute remain with us.

CAD sistemi ve yönetim kodu: SIEMENS NX (*.prt)

Malzeme / SAP kodu / Markalama kodu: Renk / Color: See table

Ağırlık (g) / Weight: See table

Çekme mukavemeti (N/mm²) / Tensile strength: N/A Sertlik (HV) / Hardness: N/A

Kaplama malzemesi / Coating material: N/A Kaplama kalınlığı (µm) / Coating thickness: N/A

Çizen / Drawn: İsmi / Name: Tarih / Date: İmza / Signature: Proje kodu / Project code: K101M T3.K101M

Tasarım Sorumlusu / Responsible design: Canan Topraklısar 02.06.2021
 Kontrol / Checked: Cem KABAŞANOĞLU 02.06.2021

Güvenlik Dök. / Safety Doc: N/A Proje Adı / Project Name: İMMOBİLİZER TYPE-3

Ölçek/Scale: 3:5 Resim No / Drawing No: 95510 Boyut Formatı / Format: A1
 Sayfa / Sheet: 1 Sayfa Sayfaları / Total number of pages: 1

Normal ölçülerde belirtilmeyen toleranslar için genel toleranslar / General tolerances for nominal dimensions without specified tolerance: DIN 2768 mK