Üzerinde mavi renkli "KONTROLLÜ KOPYA " kaşesi bulunmayan dokümanlar kontrol dışı çoğaltılmıştır,geçerliliği yoktur. / Documents, do not bear a blue inked "Controlled Copy" stamp are without authorization and invalid.

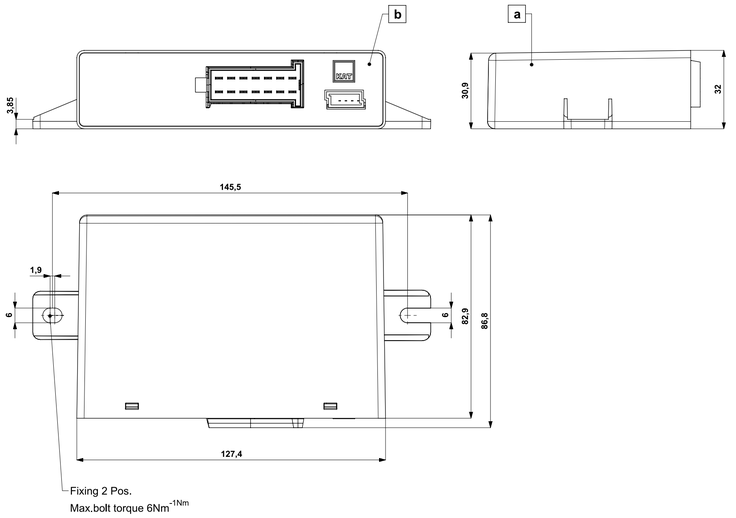
Notlar/ Notes

IMPORTANT REMARKS

* KAT Immobilizer system is approved by the German Motor Vehicle Department.
  Date and nr of approval certificate are 11.10.2021 and E24 10R-06 3588.

* 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. Colour of Ignition keys are blue and master key is red in standart.



TECHNICAL REMARKS

Electrical Data

Voltage range	: 7,5V - 32V
Nominal voltage	: 24V and 12V
Temperature range	: -40°C to +85°C
Power consumption relay open	: typically 50mA @24VDC
Power consumption relay closed	: typically 800mA @24VDC
Stand-by current (operation clamp 30)	: ≤30 µA @24VDC

Relay outputs

Maximum switching voltage	: 27V
Maximum switching current	: 15A
Continuous current (Tu 23°C)	: 10A
Voltage drop (10A)	: typically 50mV

RF Module

Transmission frequency	: typically 134.2 kHz
Modulation	: FSK
Range	: approx. 10cm

Protection level acc. to (DIN40050)
ANTENNA UNIT_1 IP69
ANTENNA UNIT_2 IP40
ANTENNA UNIT_3 IP69
ANTENNA UNIT_4 IP69
ECU_A IP40

Item	Designation	Material	Color	Weight (g)
a	Housing	PA66 GF30	Black	85,4
b	Cover 14 pin			6,7

Delivery Volume	
Control Unit	1
Antenna	1
Ignition key (blue)	2
Master key (red)	1
Manual	1

SPARE PARTS

Part Name	Cable Length											
	1000 mm		1700 mm		1800 mm		2000 mm		2200 mm		2500 mm	
	Old KAT Nr.	New KAT Nr.	Old KAT Nr.	New KAT Nr.	Old KAT Nr.	New KAT Nr.	Old KAT Nr.	New KAT Nr.	Old KAT Nr.	New KAT Nr.	Old KAT Nr.	New KAT Nr.
Below Dashboard	31968	302200100103	34272	302200100153	34273	-	34274	-	34275	302200100154	34276	-
Above Dashboard	31967	302200100102	*		*		*		*		*	
Above Dashboard With Cap	*		*		*		*		*		*	
Above Dashboard Without Cap	*		*		*		*		*		*	
Above Dashboard Without Cap and LED	34874	-	35163	302200100221	*		*		*		*	
Extension Cable	34713	-	34714	-	34715	-	*		34716	-	*	

* Available upon request

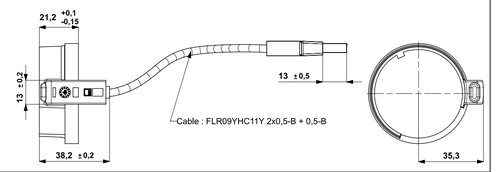
ORDERING SCHEME

1	2	3	4	5
___	___	___	___	___

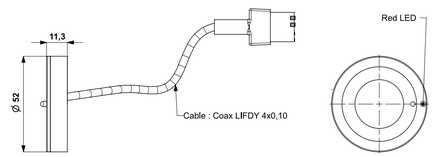
1_ Antenna Types
2_ Types of electronic control unit
3_ Cable length
4_ Key Types
5_ Customer logo on key

1 ANTENNA TYPES

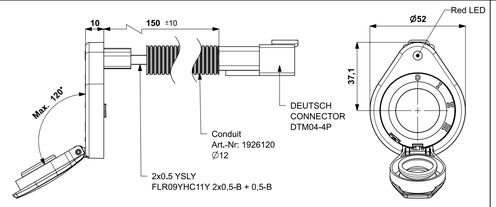
1 Below Dashboard



2 Above Dashboard

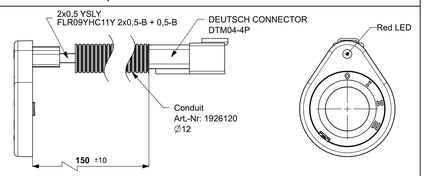


3 Above Dashboard With Cap



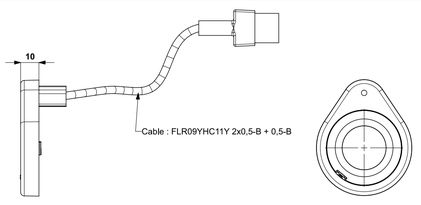
* Extension cable option is available

4 Above Dashboard Without Cap



* Extension cable option is available

5 Above Dashboard Without Cap and LED

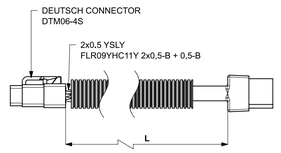


6 No ANTENNA

* For technical details refer to;
(Antenna type-1) 95200100006 (95090),
(Antenna type 2,3,4&5) 95200100018 (95421)

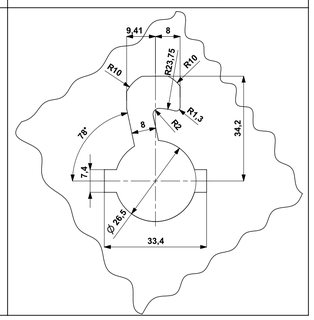
Extension Cable

Extension Cable for antenna types 3 and 4



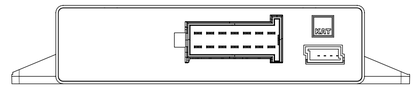
See table 3 for "L" length options

PANEL OPENING

BELOW DASHBOARD FOR ANTENNA TYPES 1&2	ABOVE DASHBOARD FOR ANTENNA TYPES 3,4&5
Please, refer to drawing 95200100001 (95002).	

2 TYPES OF ELECTRONIC CONTROL UNIT

A With 14 pin plug



B NO ELECTRONIC CONTROL UNIT

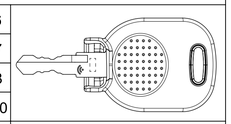
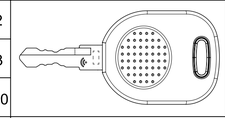
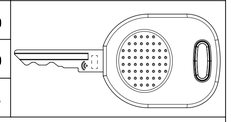
Tyco Article Nr : 828801-5 to be fitted with 929504-5
Used for relay controlled immobilizer systems.
Supports up to 4-relays.

3 CABLE LENGTH

	Cable length for Antenna Types 1,2&5	Extension Cable length(L) for Antenna Types 3&4
1	1000mm	850mm
2	1700mm	1550mm
3	1800mm	1650mm
4	2000mm	1850mm
5	2200mm	2050mm
6	2500mm	2350mm
7	Customer specific	
8	Without	

* Please contact KAT customer representative for other cable length options
* Cable longer than 2500 mm is not applicable

4 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	

5 CUSTOMER LOGO ON KEY

A	WITH
B	WITHOUT

Referanslar
References

ISO 128
DIN 2468 mK
DIN EN 60529
ETSI EN 301 489-1 V2,2,3
ETSI EN 301 489-3 V2,1,1

İzometrik görünüş / Isometric view
Ölçek/Scale
N/A

Rev. Nr. Rev. Nr.	Konum Section	Tarih Date	İsim Name	Revizyon tarama Revision description	Talep Nr. Order Nr.
a	N/A	15.05.2008	K. KARABULUT	Immobilizer with 10-pin socket is cancelled.	N/A
b	N/A	05.07.2010	FERHAT TUTAR	Above dashboard antenna is changed, Below dashboard antenna design is changed, Technical information is added.	N/A
c	K5	18.12.2012	MURAT TUTAR	Standard ignition key color was black.	N/A
d	N/A	22.03.2013	C. TOPRAKHİSAR	E1 approval number is corrected.	N/A
e	N/A	15.12.2014	C. TOPRAKHİSAR	10-pin and 14-pin sockets informations are detailed.	N/A
f	K13	02.09.2015	EMRAH IŞIK	Ingress protection grades are added,	N/A
g	N/A	19.04.2017	C. TOPRAKHİSAR	Resme 5 numaralı anten tipi eklendi, Antenna unit numbered 5 was added,	N/A
h	N/A	16.02.2018	K.KARABULUT	Technical drawing updated.	N/A
i	A2/A13/ 02	06.06.2022	K.KARABULUT	* E=Approval nr.revised, * 10 pin plug options removed from selection-2 * Electrical features updated. * New KAT P/N added * ECU fixing torque value added	KAT Action Nr. 7182

KAT; bunlarla sınırlı kalınmamak kaydı ile kopyalama hakları,isimlendirme hakkı, endüstriyel mülkiyet hakkı için başvuru hakkı ve bununla sınırlı kalınmamak kaydı ile buluş hakları dahil olmak üzere tüm hakları saklı tutar. Kopyalama ve dağıtma veya yayma hakları dahil tüm kullanma ve işletme (faydalanma) hakları KAT'a aittir.

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 reside with us.

Parça Durumu / Part Status	Seri / Series
CAD sistemi ve yönetim kodu/CAD system and administration code	SIEMENS NX (*.prt)
Malzeme / SAP kod / Markalama kodu Material / SAP code /Part marking code: See table	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	

	İsim/ Name	Tarih / Date	İmza / Signature	Proje kod Project code
Çizen / Drawn	CANAN TOPRAKHİSAR	11.03.2008		K10IM T1,K10IM
Tasarım Sorumlusu Responsible design	MURAT TUTAR	11.03.2008		
Kontrol / Checked	Cem KABAHASANOĞLU	11.03.2008		

Güvenlik Dök. Safety Doc. N/A	Proje Adı Project Name: IMMOBILISER AND ABOVE / BELOW DASHBOARD ANTENNA KIT
ISO 128	
Ölçek/Scale: 3:5 N/A	Resim No Drawing No: 95200100002 (95008)
	Boyut Format: A1
	Sayfa Sheet: 1
	Toplam sayfa of: 1
Normal ölçülerde belirtilmeyen toleranslar için genel toleranslar General tolerances for nominal dimensions without specified tolerance	DIN 2768 mK

KAT MEKATRONİK / KAT MECHATRONICS

Kontrol ölç./ Control dim. ( ) Referans ölçü/Auxiliary dim. * SC * Önemli karakteristik ölçüsü /Significant characteristic dim. * CC * Kritik karakteristik ölçüsü / Critical characteristic dim. *Tüm ölçüler mm cinsindendir./All dimensions are in mm.