

GENERAL FEATURES

- * Corrosion protection requirements acc. to M 3018
- * Acc. to Specification : LH 255 002 and LH M3499
- * Panel opening dimensions acc. to : M3499-A2
- * Flammability : See table
- * Do not touch plugs and connector receptacle!
- * Parts which fall during handling and installing into vehicle on the ground should not be used.

ELECTRICAL FEATURES

Nominal voltage : 24 V DC
 Max.voltage drop : Lower than 5 mV per A load in switch contact
 Contact bounce : Lower than 5 ms with 1 : 5 mA bis 10 mA
 Short-circuit resistance : continuous current 20 A closed contact
 Operating voltage : 16-32 V
 Overvoltage : 36 V / 1h at 40 °C environment-temperature
 Undervoltage : 10 V 30 sec.for start voltage SG n.a.
 Test voltage : 28 ±0.2 V

Search illumination:
 min. current U = 16 V 1,9 mA
 max. current U = 32V 4,5 mA

Function illumination:
 min. current U = 16 V 12 mA
 max. current U = 32V 40 mA / Function controlindicator

Elektr.connection : 8 pole connector (AMP 106455)
 100% current tested and values are being logged in the EOL.

MECHANICAL FEATURES

Mounting force : Lower than 5 N
 Disassembly force : max.100 N (Min. 5 N when removal equipment is used)
 Disassembly force of the connector min.50 N
 Protection : actuator side IP52
 : connector side IP40

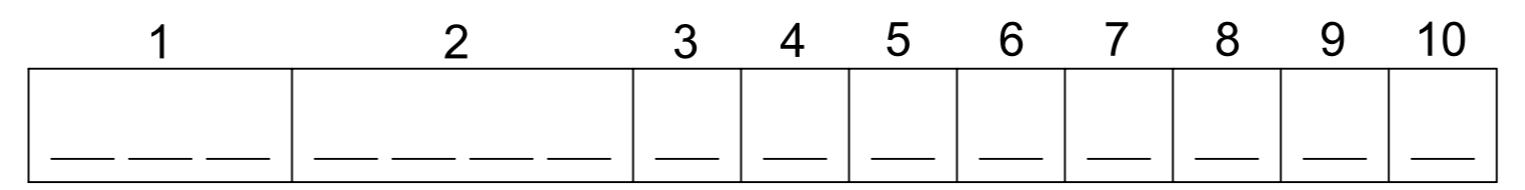
Product life
 Mechanical : 200.000 cycles
 Electrical :
 Load switching : Resistive Load : 5 A/60 000 cycles
 Inductive Load : 3 A/120 000 cycles
 Electronic switching : Resistive Load : 12 mA/200 000 cycles
 Hazard warning switch : Electronic Load : 5 mA/200 000 cycles

TEMPERATURE RANGE

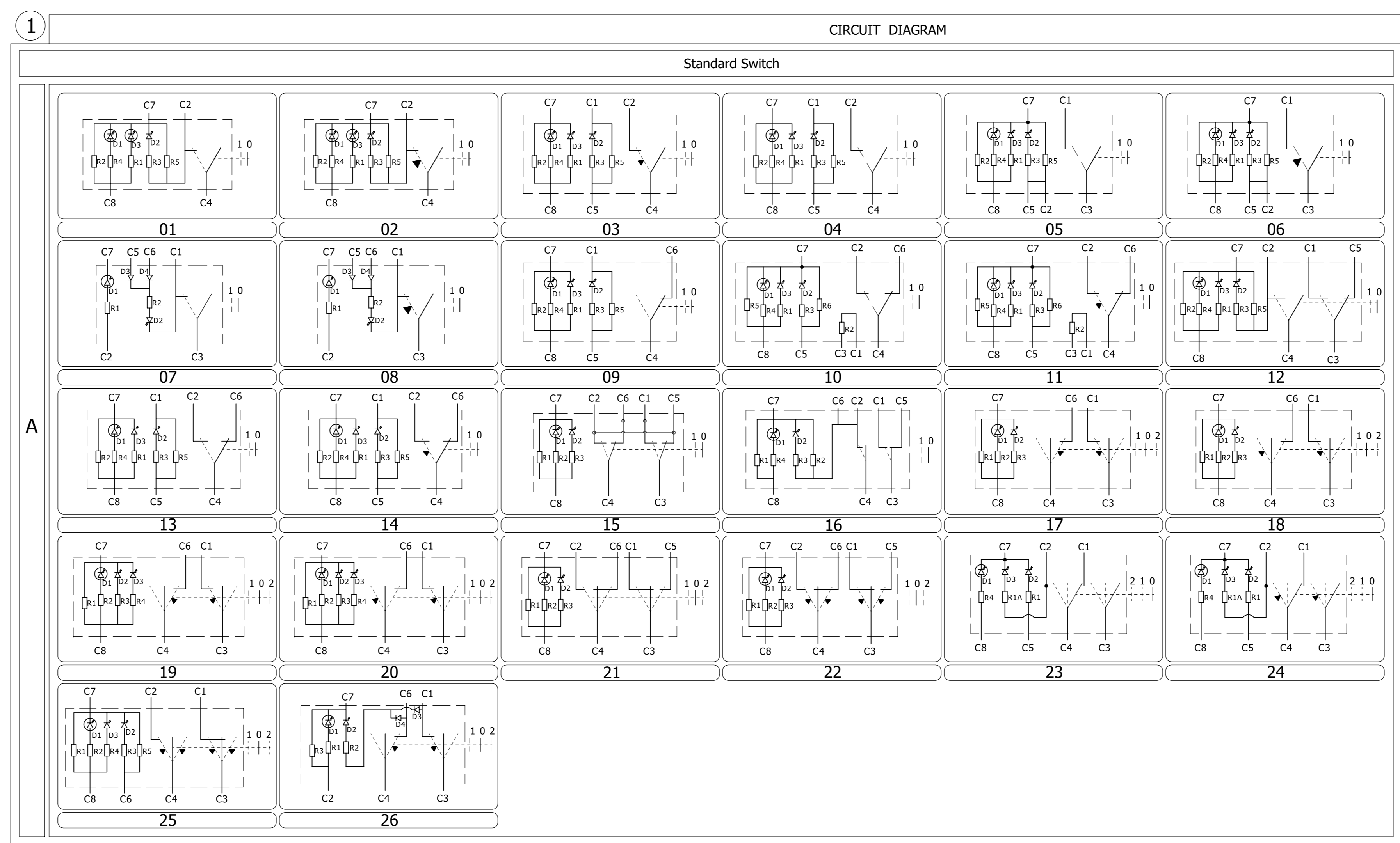
Storage temp. : 2h/+95 °C
 Operating temp. : from -40 to +80 °C
 Arctic : -50 °C

Item	Designation	Material	Flammability	Hardness	Coating	Color	Weight (g)
a	Housing	PC	UL94 V-0			Black	8
b	Actuator	Makrolon 2405 Series	UL94 V-2	N/A	N/A	See Actuator color details	3,7
c	Interlock	POM	UL94 HB			Red	0,1
d	Plugs	CuSn6 / 2,8 x 0,8mm	N/A	130-160 HV (R420)	Ag 2±1 µm	N/A	0,4
e	Connector	PA66 GF30				Red	4,5
f	Hole Plug 1	PA6 GF30	UL94 HB	N/A	N/A	Black	5,9
g	Hole Plug 2	PC					6,9
h	Panel	PA6 GF30					7,5

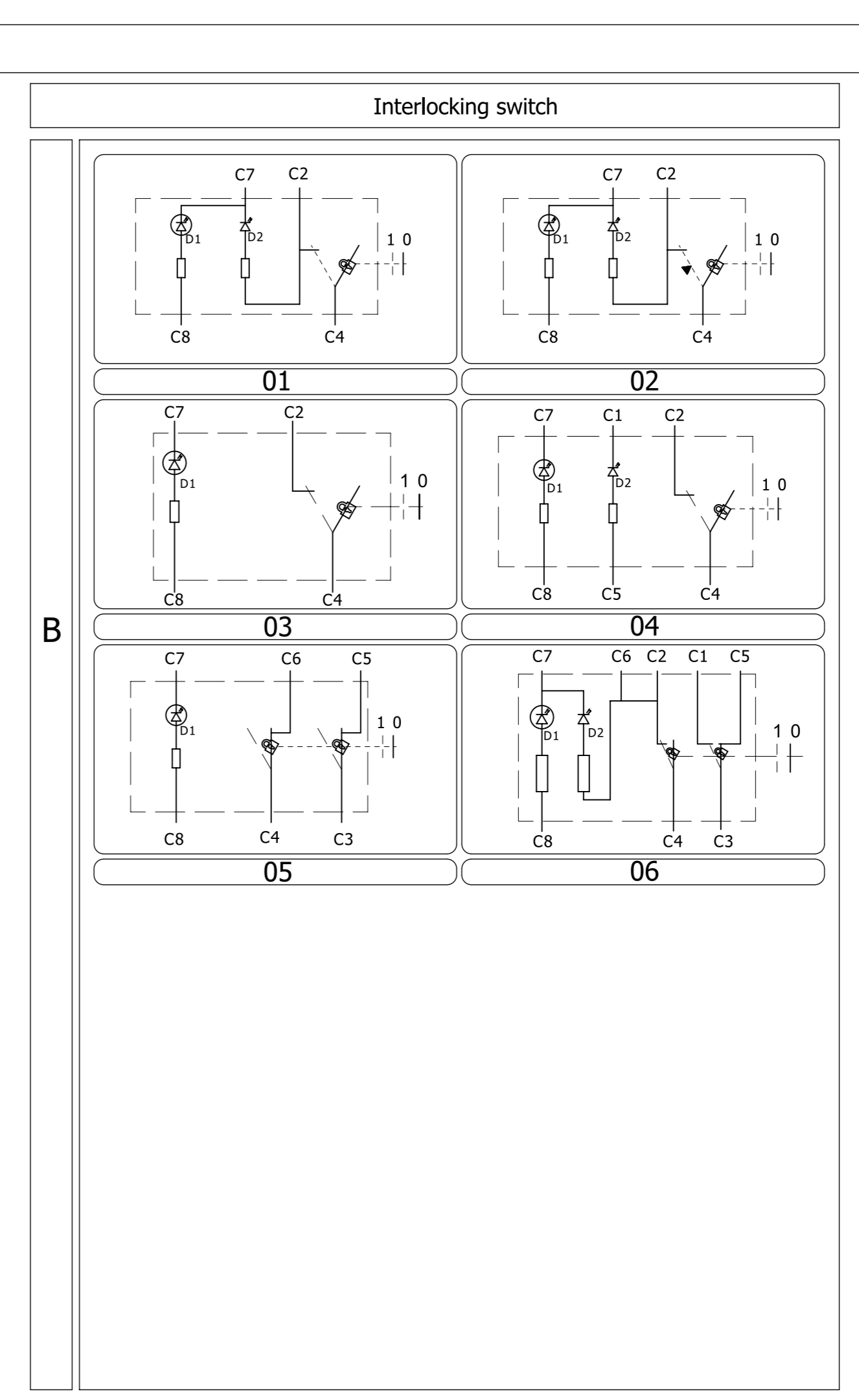
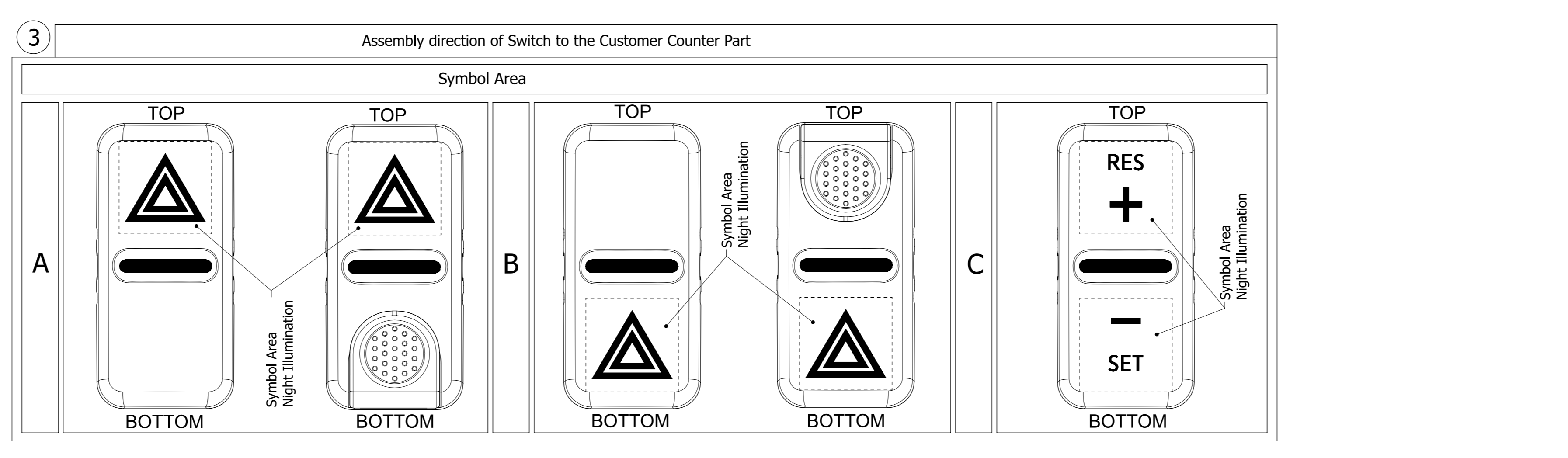
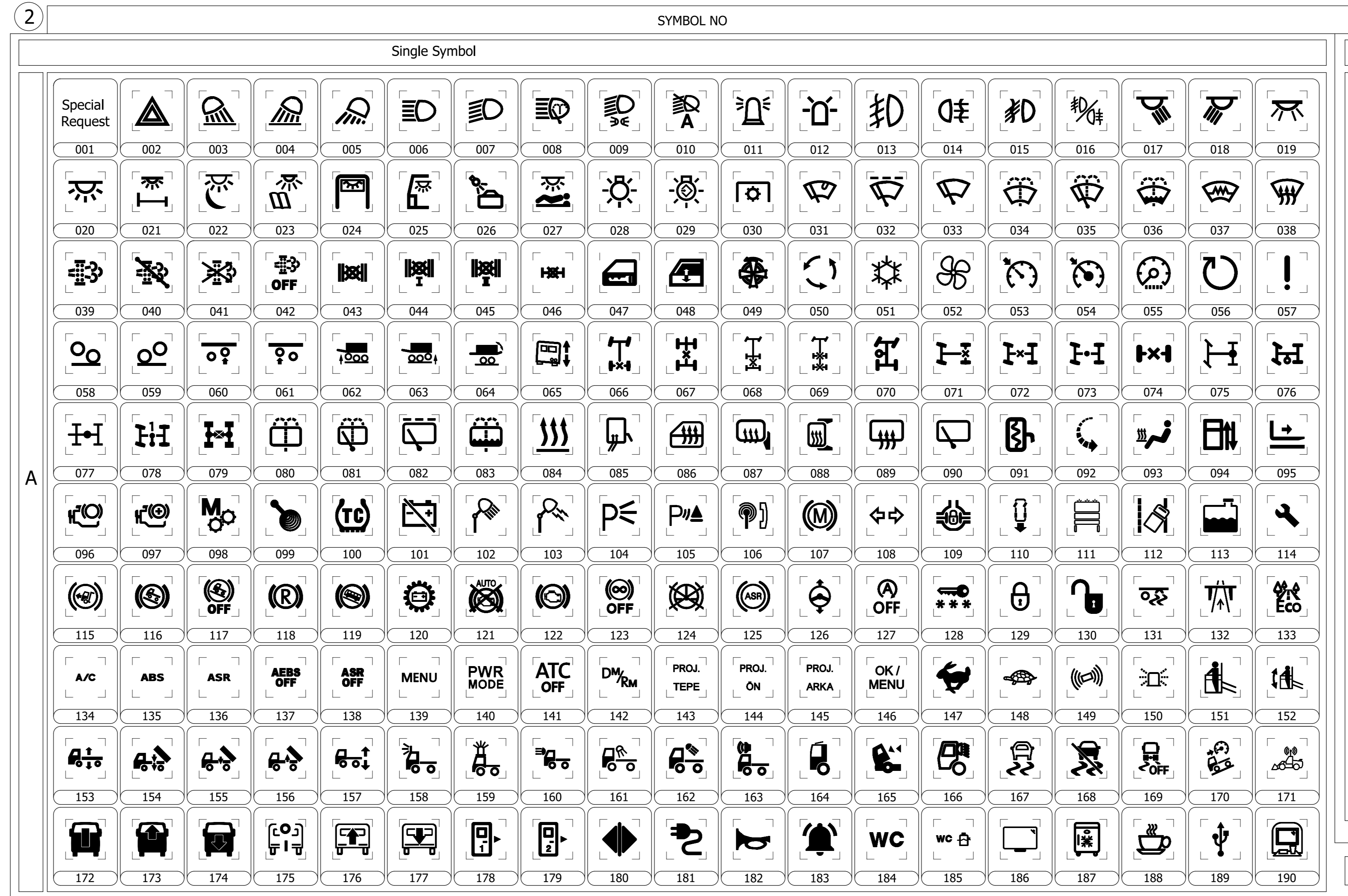
ORDERING SCHEME



- 1- Circuit diagram
- 2- Symbol No
- 3- Assembly direction of Switch to the Customer Counter Part
- 4- Laser Symbol Night Illumination LED COLOR TABLE
- 5- Function Illumination LED COLOR TABLE
- 6- Function Night Illumination LED COLOR TABLE
- 7- Actuator Base Color
- 8- Actuator Paint Color
- 9- Actuator Lock Color
- 10- Contact Type



D1 LED : Laser Symbol Night illumination D3 LED : Function Night illumination ▲ Maintained Action 🔒 Lock



4 (D1)LASER SYMBOL NIGHT ILLUMINATION LED COLOR TABLE

A	Amber (Standard)
Y	Yellow
G	Green
R	Red
W	White
B	Blue
-	No LED

5 (D2)FUNCTION ILLUMINATION LED COLOR TABLE

A	Amber (Standard)
Y	Yellow
G	Green
R	Red
W	White
B	Blue
-	No LED

6 (D3)FUNCTION NIGHT ILLUMINATION LED COLOR TABLE

A	Amber (Standard)
Y	Yellow
G	Green
R	Red
W	White
B	Blue
-	No LED

7 ACTUATOR BASE COLOR

1	WHITE	-
2	RED	RAL 3020
3	GRAY	RAL 5008

8 ACTUATOR PAINT COLOR COLOR INFORMATION

1	BLACK (Standard)	RAL 9005	NWC (Supply of paint):LACK000194-01 Graphit 85 Paint thickness: 25-28 µm
2	RED	RAL 3027	NWC (Paint supplier):LACK000214-1K Paint thickness: 25-28 µm
3	YELLOW	RAL 1018	PETER LACKE - PLTR4910 Paint thickness : 22 - 28 µm

9 ACTUATOR LOCK COLOR

A	Black	RAL 9005
B	Red	RAL 3020
C	Yellow	RAL 1023
D	NO Actuator Lock	

10 CONTACT TYPE

1	Load switch	Flat / Bulky (AgSnO2)
2	Electronic Switches	Flat / Crown (AgNiO.15)

