

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

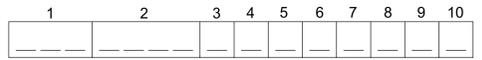
Product life
 Mechanical : 200.000 cycles
 Electrical : 5 A/60 000 cycles
 Load switching : Resistive Load : 5 A/60 000 cycles
 Inductive Load : 3 A/120 000 cycles
 Electronic switching : Resistive Load : 12 mA/200 000 cycles
 Hazard warning switch : Electronic Load : 5 mA/200 000 cycles

TEMPERATURE RANGE

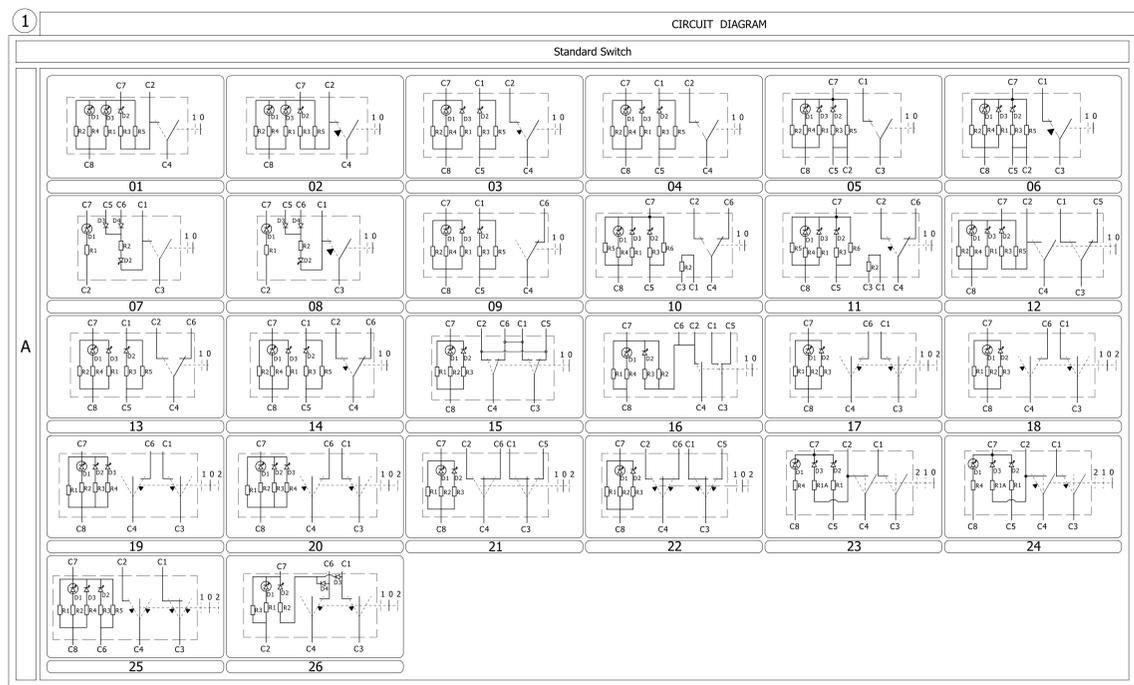
Storage temp. : 2h/+95 °C
 Operating temp. : from -40 to +80 °C
 Arctic : -50 °C

Item	Designation	Material	Flammability	Hardness	Coating	Color	Weight (g)
a	Housing	PC	UL94 V-0	N/A	N/A	Black	8
b	Actuator	Makrolon 2405 Series	UL94 V-2	N/A	See Actuator color details	Black	3,7
c	Interlock	POM	UL94 HB	N/A	Red	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	N/A	N/A	N/A	Black	4,5
f	Hole Plug 1	PA6 GF30	UL94 HB	N/A	N/A	Black	5,9
g	Hole Plug 2	PC	N/A	N/A	N/A	Black	6,9
h	Panel	PA6 GF30	N/A	N/A	N/A	Black	7,5

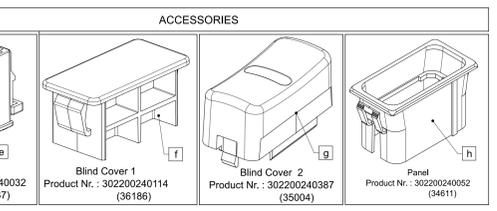
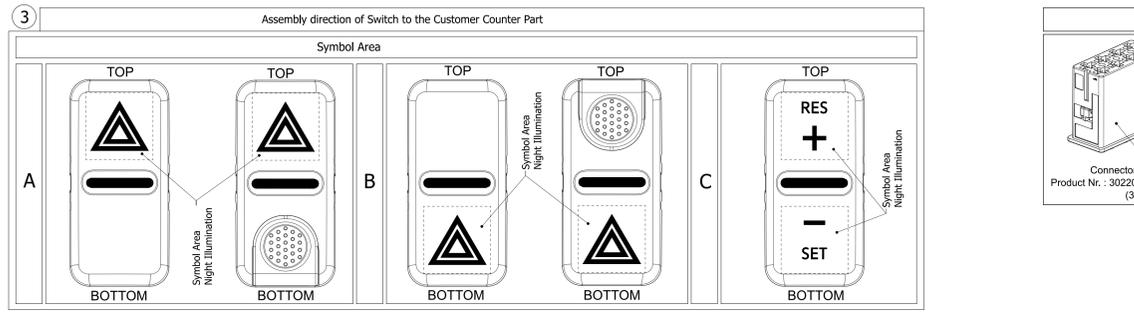
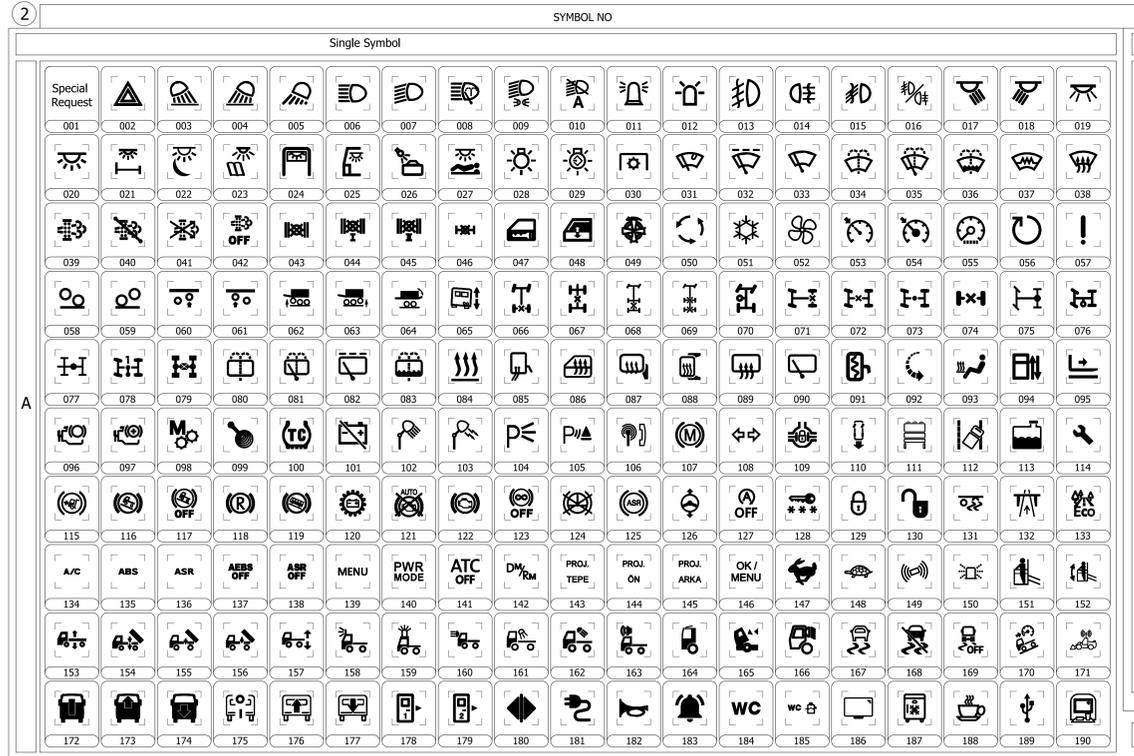
ORDERING SCHEME



- 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 ▲ Momentary 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

1	BLACK (Standard)	RAL 9005
2	RED	RAL 3027
3	YELLOW	RAL 1018
4	ORANGE	RAL 2009

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 (AgNi0,15)

Part No.	Section	Item No.	Item Name	Revision	Revision description	Start Date	Draw No.
2	NA	05.00.001	ROCKER SWITCH	01	Initial release		
3	NA	05.00.002	ROCKER SWITCH	02	Change of material		
4	NA	05.00.003	ROCKER SWITCH	03	Change of material		
5	NA	05.00.004	ROCKER SWITCH	04	Change of material		
6	NA	05.00.005	ROCKER SWITCH	05	Change of material		
7	NA	05.00.006	ROCKER SWITCH	06	Change of material		
8	NA	05.00.007	ROCKER SWITCH	07	Change of material		
9	NA	05.00.008	ROCKER SWITCH	08	Change of material		
10	NA	05.00.009	ROCKER SWITCH	09	Change of material		
11	NA	05.00.010	ROCKER SWITCH	10	Change of material		
12	NA	05.00.011	ROCKER SWITCH	11	Change of material		
13	NA	05.00.012	ROCKER SWITCH	12	Change of material		
14	NA	05.00.013	ROCKER SWITCH	13	Change of material		
15	NA	05.00.014	ROCKER SWITCH	14	Change of material		
16	NA	05.00.015	ROCKER SWITCH	15	Change of material		
17	NA	05.00.016	ROCKER SWITCH	16	Change of material		
18	NA	05.00.017	ROCKER SWITCH	17	Change of material		
19	NA	05.00.018	ROCKER SWITCH	18	Change of material		
20	NA	05.00.019	ROCKER SWITCH	19	Change of material		
21	NA	05.00.020	ROCKER SWITCH	20	Change of material		
22	NA	05.00.021	ROCKER SWITCH	21	Change of material		
23	NA	05.00.022	ROCKER SWITCH	22	Change of material		
24	NA	05.00.023	ROCKER SWITCH	23	Change of material		
25	NA	05.00.024	ROCKER SWITCH	24	Change of material		
26	NA	05.00.025	ROCKER SWITCH	25	Change of material		
27	NA	05.00.026	ROCKER SWITCH	26	Change of material		
28	NA	05.00.027	ROCKER SWITCH	27	Change of material		
29	NA	05.00.028	ROCKER SWITCH	28	Change of material		
30	NA	05.00.029	ROCKER SWITCH	29	Change of material		
31	NA	05.00.030	ROCKER SWITCH	30	Change of material		
32	NA	05.00.031	ROCKER SWITCH	31	Change of material		
33	NA	05.00.032	ROCKER SWITCH	32	Change of material		
34	NA	05.00.033	ROCKER SWITCH	33	Change of material		
35	NA	05.00.034	ROCKER SWITCH	34	Change of material		
36	NA	05.00.035	ROCKER SWITCH	35	Change of material		
37	NA	05.00.036	ROCKER SWITCH	36	Change of material		
38	NA	05.00.037	ROCKER SWITCH	37	Change of material		
39	NA	05.00.038	ROCKER SWITCH	38	Change of material		
40	NA	05.00.039	ROCKER SWITCH	39	Change of material		
41	NA	05.00.040	ROCKER SWITCH	40	Change of material		
42	NA	05.00.041	ROCKER SWITCH	41	Change of material		
43	NA	05.00.042	ROCKER SWITCH	42	Change of material		
44	NA	05.00.043	ROCKER SWITCH	43	Change of material		
45	NA	05.00.044	ROCKER SWITCH	44	Change of material		
46	NA	05.00.045	ROCKER SWITCH	45	Change of material		
47	NA	05.00.046	ROCKER SWITCH	46	Change of material		
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51	NA	05.00.050	ROCKER SWITCH	50	Change of material		
52	NA	05.00.051	ROCKER SWITCH	51	Change of material		
53	NA	05.00.052	ROCKER SWITCH	52	Change of material		
54	NA	05.00.053	ROCKER SWITCH	53	Change of material		
55	NA	05.00.054	ROCKER SWITCH	54	Change of material		
56	NA	05.00.055	ROCKER SWITCH	55	Change of material		
57	NA	05.00.056	ROCKER SWITCH	56	Change of material		
58	NA	05.00.057	ROCKER SWITCH	57	Change of material		
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73	NA	05.00.072	ROCKER SWITCH	72	Change of material		
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77	NA	05.00.076	ROCKER SWITCH	76	Change of material		
78	NA	05.00.077	ROCKER SWITCH	77	Change of material		
79	NA	05.00.078	ROCKER SWITCH	78	Change of material		
80	NA	05.00.079	ROCKER SWITCH	79	Change of material		
81	NA	05.00.080	ROCKER SWITCH	80	Change of material		
82	NA	05.00.081	ROCKER SWITCH	81	Change of material		
83	NA	05.00.082	ROCKER SWITCH	82	Change of material		
84	NA	05.00.083	ROCKER SWITCH	83	Change of material		
85	NA	05.00.084	ROCKER SWITCH	84	Change of material		
86	NA	05.00.085	ROCKER SWITCH	85	Change of material		
87	NA	05.00.086	ROCKER SWITCH	86	Change of material		
88	NA	05.00.087	ROCKER SWITCH	87	Change of material		
89	NA	05.00.088	ROCKER SWITCH	88	Change of material		
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93	NA	05.00.092	ROCKER SWITCH	92	Change of material		
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95	NA	05.00.094	ROCKER SWITCH	94	Change of material		
96	NA	05.00.095	ROCKER SWITCH	95	Change of material		
97	NA	05.00.096	ROCKER SWITCH	96	Change of material		
98	NA	05.00.097	ROCKER SWITCH	97	Change of material		
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