



PolyGard®

Warning Horn WH/BL-24 with & w/o push-button

Warning horn and flashlight combined in stable plastic housing (ABS)

APPLICATION

All-purpose audio warning hooter with integrated LED flashlight for acoustic and optical warning with and without push-button for acknowledgement.

FEATURES

- Simple maintenance
- Continuous operation
- Long life-time
- Reliable
- Extended temperature range



WH/BL-24 and WH/BL-24-TAST

TYPES

Combination of warning horn / flashlight 24 V DC: **WH/BL-24** (without push-button)

Combination of warning horn / flashlight 24 V DC: **WH/BL-24-TAST red/red** (with push-button)

Combination of warning horn / flashlight 24 V DC: **WH/BL-24-TAST white/red** (with push-button)

Combination of warning horn / flashlight 24 V DC: **WH/BL-24-TAST white/blue** (with push-button)

SPECIFICATIONS

Electrical

Power supply	9 – 28 V DC
Power consumption	Max. 40 mA
Audio frequency	38 sounds selectable, incl. DIN 33 404 sound
Acoustic pressure	Max. 98 dB(A) @1m

Operating Environment

Humidity	0 – 95 % RH non condensing
Temperature - Working & Storage	-25 °C to +70 °C
Pressure range	Atmospheric ± 10 %

Physical characteristics

Enclosure material	Thermoplastic (ABS), shock-resistant
Enclosure colour	Red
Dimensions (d x H)	ca. 91 * 97 mm
Weight	0.4 kg
Protection class	IP 65, with push-button IP 40
Mounting	Wall and ceiling installation
Cable entry	ca. 12 mm diameter
Wire connection	Screw-type terminals, min. 0.28 mm ² , max. 2.5 mm ²
Directives	VdS



MSR-Electronic GmbH ::: Würdinger Str. 27 & 27A ::: 94060 Pocking ::: Germany

Specification subject to change without notice
Up-to-date data sheets and user manuals can be found in the download area of www.msr-24.com.
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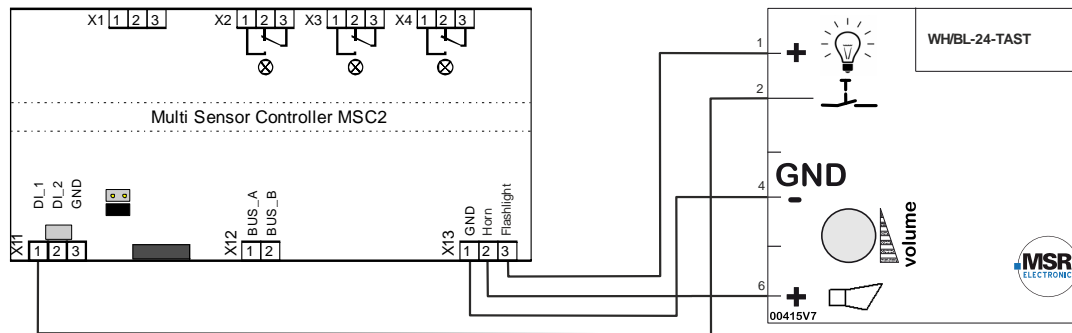


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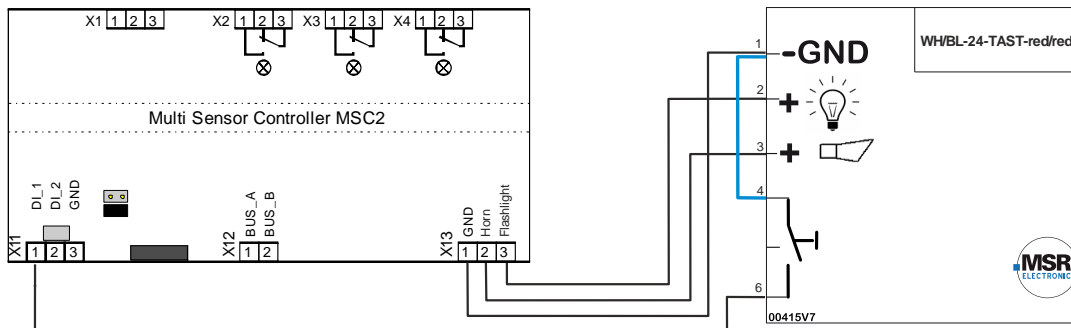
WIRING CONFIGURATION (WH/BL-24-TAST white/red or white /blue)

Example:



WIRING CONFIGURATION (WH/BL-24-TAST red/red) (as from August 2018)

Example:



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SWITCH POSITIONS FOR HORN/FLASH COMBINATION



- 00 1Hz, full beam
- 01 1Hz, half beam
- 10 2Hz, full beam
- 11 2Hz, half beam

1.Ton	2.Ton	Tonelect	Art-Abkürzung	Frequenz	Impuls-Abtast-10sec	Ton Beschreibung	Anwendung	mA @ 120Vc	dB(A) @ 1m, 90° 120Vc	mA @ 240Vc	dB(A) @ 1m, 90° 240Vc
0	8	00000	Art-Abkürzung	150 zu 1000 zu 150Hz	10sec - 40sec - 10sec						
1	14	00001	Ablertend	800 & 970 Hz	2 Hz (250ms - 250ms)		Hochst	27	93	35	97
2	14	00010	Anzeigend	800 zu 970 Hz	7 Hz (7/5)		BS Feuer	20	93,5	30	98
3	14	00011	Anzeigend	800 zu 970 Hz	1 Hz (1/5)		BS Feuer	20	93	29	97
4	14	00010	DauerTon	2850 Hz	steady		BS Feuer	20	94	30	97
5	4	00010	Anzeigend	2400 zu 2850 Hz	7 Hz (7/5)			18	88	23	95
6	4	00010	Anzeigend	2400 zu 2850 Hz	1 Hz (1/5)			17	87	23	95
7	14	00011	Anzeigend	300 zu 1200 Hz	3s ansteigend, 0,5s Ruhe, dann Wiederholen		Niederlande Feuer (NFEN 2579)	20	94	23	98
8	14	00100	Abschwellend	1200 zu 900 Hz	1 Hz		Deutscher Feuer (DIN 33 404)	21	93	31	98
9	4	00101	Ablertend	2400 & 2850 Hz	2 Hz (250ms - 250ms)			18	87	24	95
10	14	00101	Unterbrochen	970 Hz	0,5 Hz (1s Auf / 1s Aus)		PREAlert	17	92	20	97
11	14	00101	Ablertend	800 & 970 Hz	1 Hz (500ms - 500ms)		BS Feuer	20	93	30	97
12	4	00110	Unterbrochen	2850 Hz	0,5 Hz (1s Auf / 1s Aus)			17	88	21	96
13	14	00110	Unterbrochen	970 Hz	0,8 Hz (250ms Auf / 1s Aus)			17	92	21	97
14	14	00111	DauerTon	970 Hz	Durchgehend		PREtoxic gas	20	92	28	97
15	14	00111	Ablertend	554 & 440 Hz	100ms - 400ms		Frankreich Feuer (NF S 32-001)	22	91	35	96
16	16	01000	Unterbrochen	660 Hz	3,3 Hz (150ms Auf / 150ms Aus)		Schweden (Air Raid)	18	91	26	96
17	17	01001	Unterbrochen	660 Hz	0,28 Hz (1,8s Auf / 1,8s Aus)		Schweden (local warning)	18	91	23	96
18	18	01010	Unterbrochen	660 Hz	0,05 Hz (6,5s Auf / 13s Aus)		Schweden (Pre-mess)	18	91	26	96
19	19	01011	DauerTon	660 Hz	Durchgehend		Schweden (All Clear)	20	91	31	96
20	20	01010	Ablertend	554 & 440 Hz	0,5 Hz (1s Auf / 1s Aus)		Schweden (Turn Out)	22	91	35	96
21	21	01011	Unterbrochen	660 Hz	1 Hz (500ms - 500ms)		Schweden (Alarm)	20	91	21	96
22	21	01010	Unterbrochen	2850 Hz	4 Hz (150ms Auf / 100ms Aus)		Pelican crossing	18	88	22	95
23	14	01011	Anzeigend	800 zu 970 Hz	50 Hz		BS Feuer	21	90	30	96
24	4	01100	Anzeigend	2400 zu 2850 Hz	50 Hz			20	85	25	93
25	25	01101	Unterbrochen	970 Hz	3 x 500ms Pulse gefolgt von 1,5s Pause, dann Wiederholen		ISO 8201	19	92	23	97
26	26	01101	Unterbrochen	2850 Hz	3 x 500ms Pulse gefolgt von 1,5s Pause, dann Wiederholen		ISO 8201	19	88	23	95
27	27	01101	DauerTon	4000 Hz	Durchgehend		ISO 8201	19	90	23	95
28	10	01100	Ablertend	800 & 970 Hz	2 Hz (250ms - 250ms)		BS Feuer	22	93	30	97
29	33	01101	Ablertend	990 & 650 Hz	2 Hz (250ms - 250ms)		BS Feuer	23	92	35	97
30	35	01110	Ablertend	510 & 610 Hz	2 Hz (250ms - 250ms)		BS Feuer	23	91	35	96
31	31	01111	Anzeigend	300 zu 1200 Hz	1 Hz			22	93	34	97
32	32	10000	DauerTon	4000 Hz	Durchgehend		BS Feuer	20	91	25	96
33	8	10001	DauerTon	990 Hz	Durchgehend			21	92	30	97
34	8	10010	Unterbrochen	990 Hz	1 Hz (500ms Auf / 500ms Aus)			19	92	21	97
35	8	10011	DauerTon	510 Hz	Durchgehend			23	91	35	96
36	8	10010	Unterbrochen	510 Hz	1 Hz (500ms Auf / 500ms Aus)			20	91	22	96
37	8	10011	DauerTon	850 Hz	Durchgehend			21	89	30	96
38	8	10010	DauerTon	1650 Hz	Durchgehend			20	86	24	94

