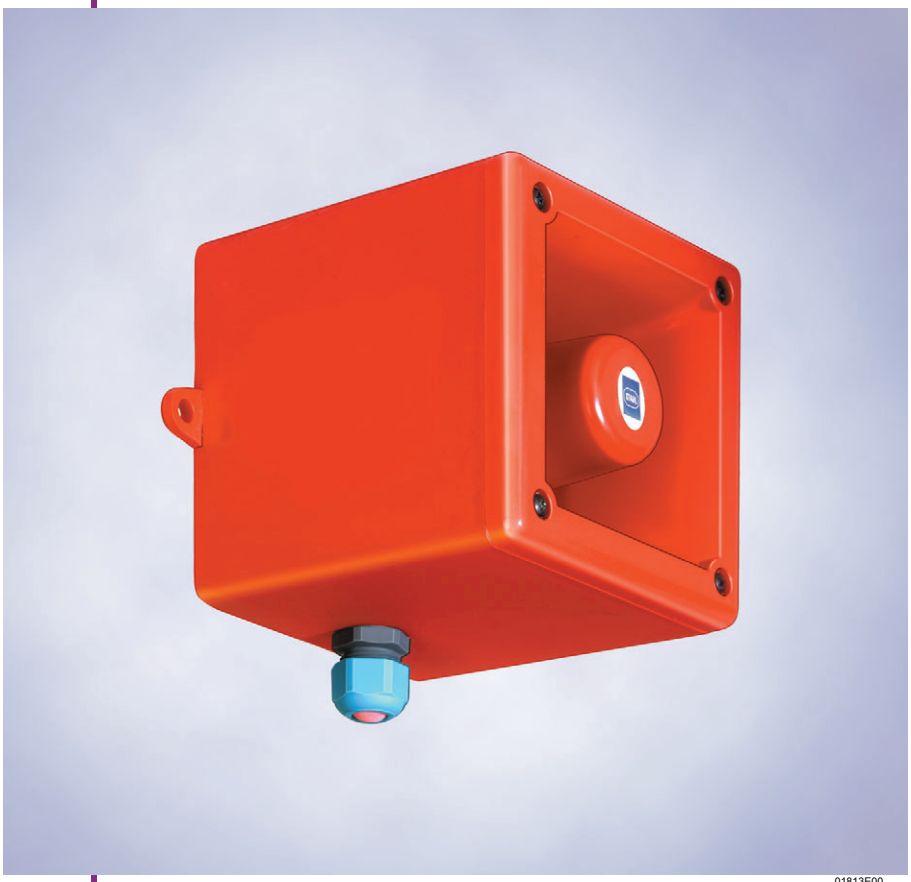
Control Equipment



Horn
for EEx i Circuits
Series 8492

- Explosion protection
  – CENELEC
  – IEC
- For use in
  – Zone 0
  – Zone 1 and Zone 2
- 49 different signal sequences adjustable with internal DIP switches
- Three different signal sequences can be selected through an external switch with a given DIP switch setting
- Three PFEER signals
  – General alarm
  – Toxic gas alarm
  – Prepare to abandon platform
- Volume adjustable
- Robust plastic enclosure (ABS)
- Synchronized tone sequence of parallel operated devices by quartz-controlled oscillator
- Option: speaker module, programmable

The adjustable tone sequences and tone sequence combinations for horns Series 8492 are identical to horns Series 8493.

STAHL

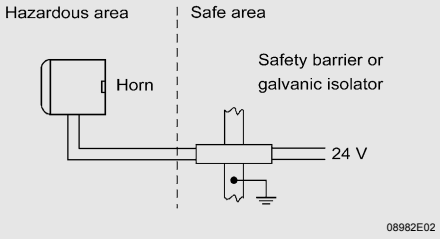
Zones 1 & 2

Selection table

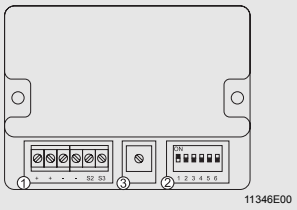
Version	Volume	Explosion group	Ordering code	Weight kg
Horn for EEx i circuits	max. 105 dB(A)	IIC	**8492/111**	1,000
Note	A programmable announcement module can be applied.			

Technical Data

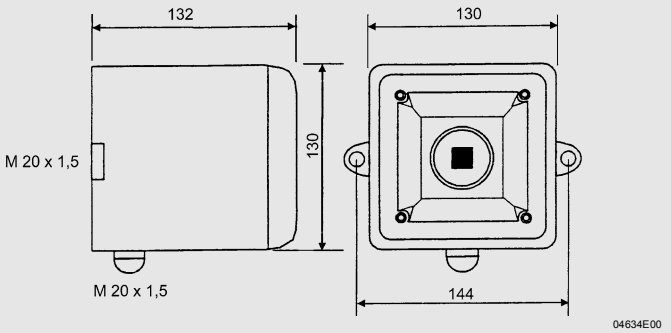
Explosion protection	Ⓔx II 1 G EEx ia IIC T4 (T4 at + 60 °C)
Certificates	SIRA 05 ATEX 2270 X
Volume	105 dB(A), at 1 m; adjustable
Rated operational voltage U_e	10 V ... 28 V
Rated working current I_e	25 mA typically 28 V, 300 Ω with a 24 V supply across a safety barrier
Electromagnetic compatibility	acc. to 89/336/EEC
Installation	to operate across any approved safety barrier whose output parameters do not exceed the following values: U_o 28 V, DC I_o 93 mA, DC P_o 660 mW



Housing	Plastic: ABS
Degree of protection	IP 65 (when using a suitable cable gland)
Ambient temperature	- 40 °C ... + 60 °C
Cable entries	M 20 x 1.5 (not supplied)
Flexible lead	Terminals for 0.5 mm² ... 2.5 mm²



Dimension drawings (all dimensions in mm) - subject to alterations



Horn for EEx i Circuits
Series 8492

Possible tone combinations for horns

Tonen-umber	Frequency	Interval	DIP switches						Second tone	Third tone
			1	2	3	4	5	6		
Tone 1	340 Hz	Continuous	0	0	0	0	0	0	Tone 2	Tone 5
Tone 2	800 / 1000 Hz	Alternating at 0.25 s intervals	1	0	0	0	0	0	Tone 17	Tone 5
Tone 3	500 / 1200 Hz	Slow Whoop at 0.3 Hz mit 0.5 s gap repeat	0	1	0	0	0	0	Tone 2	Tone 5
Tone 4	500 / 1000 Hz	Sweeping at 1 Hz	1	1	0	0	0	0	Tone 6	Tone 5
Tone 5	2400 Hz	Continuous	0	0	1	0	0	0	Tone 3	Tone 20
Tone 6	2400 / 2900 Hz	Sweeping at 7 Hz	1	0	1	0	0	0	Tone 7	Tone 5
Tone 7	2400 / 2900 Hz	Sweeping at 1 Hz	0	1	1	0	0	0	Tone 10	Tone 5
Tone 8	500 / 1200 / 500 Hz	Siren at 0.3 Hz	1	1	1	0	0	0	Tone 2	Tone 5
Tone 9	1200 / 500 Hz	Saw Tooth at 1 Hz - DIN	0	0	0	1	0	0	Tone 15	Tone 5
Tone 10	2400 / 2900 Hz	Alternating at 2 Hz	1	0	0	1	0	0	Tone 7	Tone 5
Tone 11	1000 Hz	Intermittent at 1 kHz	0	1	0	1	0	0	Tone 2	Tone 5
Tone 12	800 / 1000 Hz	Alternating at 0.875 Hz	1	1	0	1	0	0	Tone 4	Tone 5
Tone 13	2400 Hz	Intermittent at 1 Hz	0	0	1	1	0	0	Tone 15	Tone 5
Tone 14	800 Hz	Intermittent 0.25 s on; 1 s off	1	0	1	1	0	0	Tone 4	Tone 5
Tone 15	800 Hz	Continuous	0	1	1	1	0	0	Tone 2	Tone 5
Tone 16	550 Hz	Intermittent 0.15 s on; 0.15 s off	1	1	1	1	0	0	Tone 18	Tone 5
Tone 17	544 / 440 Hz	Alternating 100 ms / 400 ms - NFS 32-001	0	0	0	0	1	0	Tone 2	Tone 27
Tone 18	660 Hz	Intermittent 1.8 s on; 1.8 s off	1	0	0	0	1	0	Tone 2	Tone 5
Tone 19	from 1400 Hz to 1600 Hz from 1600 Hz to 1400 Hz	in 1 s; in 0.5 s	0	1	0	0	1	0	Tone 2	Tone 5
Tone 20	660 Hz	Continuous	1	1	0	0	1	0	Tone 2	Tone 5
Tone 21	554 / 440 Hz	Alternating at 1 Hz	0	0	1	0	1	0	Tone 2	Tone 5
Tone 22	544 Hz	Intermittent at 0.875 Hz	1	0	1	0	1	0	Tone 2	Tone 5
Tone 23	800 Hz	Intermittent at 2 Hz	0	1	1	0	1	0	Tone 6	Tone 5
Tone 24	800 / 1000 Hz	Sweeping at 50 Hz	1	1	1	0	1	0	Tone 29	Tone 5
Tone 25	2400 / 2900 Hz	Sweeping at 50 Hz	0	0	0	1	1	0	Tone 29	Tone 5
Tone 26	Simulated bell		1	0	0	1	1	0	Tone 2	Tone 15
Tone 27	554 Hz	Continuous	0	1	0	1	1	0	Tone 26	Tone 5
Tone 28	440 Hz	Continuous	1	1	0	1	1	0	Tone 2	Tone 5
Tone 29	800 / 1000 Hz	Sweeping at 7 Hz	0	0	1	1	1	0	Tone 7	Tone 5
Tone 30	300 Hz	Continuous	1	0	1	1	1	0	Tone 2	Tone 5
Tone 31	660 / 1200 Hz	Sweeping at 1 Hz	0	1	1	1	1	0	Tone 26	Tone 5
Tone 32	Two tone chime		1	1	1	1	1	0	Tone 26	Tone 15
Tone 33	745 Hz	unterbrochener Ton	0	0	0	0	0	1	Tone 2	Tone 5
Tone 34	1000 / 2000 Hz	Alternating at 0.5 s - Singapore	1	0	0	0	0	1	Tone 38	Tone 45
Tone 35	420 Hz	at 0.625 s - „Australian alert“	0	1	0	0	0	1	Tone 36	Tone 5
Tone 36	from 500 Hz to 1000 Hz	3.75 s / 0.25 s - Australian evac.	1	1	0	0	0	1	Tone 35	Tone 5
Tone 37	1000 Hz	Continuous	0	0	1	0	0	1	Tone 9	Tone 45
Tone 38	2000 Hz	Continuous	1	0	1	0	0	1	Tone 34	Tone 45
Tone 39	800 Hz	Intermittent 0.25 s on; 1 s off	0	1	1	0	0	1	Tone 23	Tone 17
Tone 40	544 / 440 Hz	Alternating 100 ms / 400 ms - NFS 32-001	1	1	1	0	0	1	Tone 31	Tone 27
Tone 41	Motor siren	Slow Rise to 1200 Hz	0	0	0	1	0	1	Tone 2	Tone 5
Tone 42	Motor siren	Slow Rise to 800 Hz	1	0	0	1	0	1	Tone 2	Tone 5
Tone 43	1200 Hz	Continuous	0	1	0	1	0	1	Tone 2	Tone 5
Tone 44	Motor siren	Slow Rise to 2400 Hz	1	1	0	1	0	1	Tone 2	Tone 5
Tone 45	1000 Hz	Intermittent 1 s on; 1 s off	0	0	1	1	0	1	Tone 38	Tone 34
Tone 46	1200 / 500 Hz	Saw Tooth at 1 Hz - DIN / PFEER „Prepare to abandon platform“	1	0	1	1	0	1	Tone 47	Tone 37
Tone 47	1000 Hz	Intermittent 1 s on; 1 s off - PFEEFR General Alarm	0	1	1	1	0	1	Tone 46	Tone 37
Tone 48	420 Hz	at 0.625 s - Australian Alert	1	1	1	1	0	1	Tone 49	Tone 5
Tone 49	from 500 to 1200 Hz	3.75 s / 0.25 s - Australian evac.	0	0	0	0	1	1	Tone 26	Tone 37