

ECLA EUROPEAN CLASSIFICATION

G08B

SIGNALLING OR CALLING SYSTEMS; ORDER TELEGRAPHS; ALARM SYSTEMS (signalling arrangements on vehicles [B60Q](#), [B62D41/00](#); railway signalling systems or devices [B61L](#); on cycles [B62J3/00](#), [B62J6/00](#); safes or strong-rooms with alarm devices [E05G](#); signalling or alarm devices in mines [E21F17/18](#); lamps or shutters therefor [F21](#); sensitive measuring elements, see the appropriate subclasses of [G01](#); traffic control systems [G08G](#); visual indicating means [G09](#); sound-producing devices [G10](#); radio or near-field calling systems [H04B5/00](#), [H04B7/00](#); selecting arrangements [H04Q7/00](#), [H04Q9/00](#); loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers [H04R](#)) [[C9504](#)]

Notes

1. This subclass covers also means for identifying or incapacitating burglars or the like.
2. This subclass does not cover: the mere provision of an audible or visible signalling device on measuring or switching apparatus; alarm systems for indicating that a specific variable has exceeded, or fallen below, a predetermined value, which are covered by the relevant subclasses of class [G01](#) for the measurement of that variable.alarms for specific processes or types of machines or apparatus, which are covered by the relevant subclasses for the processes, machines, or apparatus.
3. In this subclass, the following term is used with the meaning indicated:
- "systems" may cover also devices peculiar thereto.

G08B1/00

Systems for signalling characterised solely by the form of transmission of the signal [[C9504](#)]

G08B1/02

- . using only mechanical transmission

G08B1/04

- . using hydraulic transmission; using pneumatic transmission

G08B1/06

- . . hydraulic only

G08B1/08

- . using electric transmission; [[N](#): transformation of alarm signals to electrical signals from a different medium, e.g. transmission of an electric alarm signal upon detection of an audible alarm signal] [[C1202](#)]

G08B3/00

Audible signalling systems; Audible personal calling systems ([[N](#): signalling devices actuated by tyre pressure [B60C23/02](#); alarm locks [E05B45/00](#), e.g. with mechanically-operated bells [E05B45/02](#), electric [E05B45/06](#)]; audible indication of time signals [G04B21/00](#), [G04C21/00](#); [[N](#): sound producing devices, e.g. hooter, buzzer, [G10K](#); telephonic systems provided with personal calling arrangements [H04M11/02A](#)]) [[C9504](#)]

G08B3/02

- . using only mechanical transmission

G08B3/06

- . using hydraulic transmission; using pneumatic transmission

G08B3/10

- . using electric transmission; using electromagnetic transmission [[N](#): (intercoms [H04M11/02](#); distributing signals to two or more loudspeakers [H04R3/12](#); loudspeakers for public address systems [H04R27/00](#))] [[C1202](#)]

- G08B3/10B . . . [N: Personal calling arrangements or devices, i.e. paging systems (telephonic systems with personal calling arrangements [H04M11/02A](#); selective calling systems and call receivers [H04Q7/06](#), [H04Q7/20](#), [H04W68/00](#))] [C1202]
- G08B3/10B1 [N: using wireless transmission (calling systems using transmission by inductive loop [H04B5/04](#))]
- G08B3/10B1A [N: Paging receivers with audible signalling details]
- G08B3/10B1A2 [N: with voice message alert]
- G08B3/10B1A4 [N: with alternative alert, e.g. remote or silent alert]
- G08B3/10B1A6 [N: with call or message storage means]
- G08B3/10B1A8 [N: Pager holders or housings (casings for electric apparatus [H05K5/00](#))]
- G08B3/10B1A10 [N: with other provisions not elsewhere provided for, e.g. turn-off protection]
- G08B3/10B1C [N: Paging racks]
- G08B3/10B1E [N: Pager locating systems (locating mobile subscribers in general [H04Q7/38L](#))]
- G08B3/10B1G [N: Group calling]
- G08B3/14 . . . using explosives [N: (explosive signals for railways [B61L](#); detonating alarm locks [E05B45/04](#))]
- G08B5/00** **Visible signalling systems, e.g. personal calling systems, remote indication of seats occupied** ([N: locks with visible signalling devices [E05B39/00](#); electro-, magneto- or acousto-optic display devices [G02F](#)]; display of time signals [G04B19/00](#), [G04C17/00](#), [G04C19/00](#), [G04G9/00](#); for display of alphanumeric information [G09F](#); flags, banners [G09F](#); [N: display tubes [H01J17/49](#), [H01K7/04](#); electro-luminescent devices [H05B33/00](#)]) [C9508]
- G08B5/00A . . . [N: Distress signalling devices, e.g. rescue balloons (vehicle optical signalling for indicating emergencies [B60Q1/52](#); balloons in general [B64B1/40](#))]
- G08B5/00B . . . [N: Reflective safety signalling devices attached on persons]
- G08B5/00C . . . [N: Portable traffic signalling devices ([G08B5/00B](#) takes precedence; emergency signalling devices to be placed on roads or vehicles [B60Q7/00](#))]
- G08B5/00D . . . [N: Traffic signalling mirrors]
- G08B5/02 . . . using only mechanical transmission
- G08B5/06 . . . using hydraulic transmission; using pneumatic transmission
- G08B5/14 with indicator element moving about a pivot, e.g. hinged flap, rotating vane
- G08B5/16 with reset means necessitating a separate operation to return the indicator element
- G08B5/18 with indicator element moving rectilinearly
- G08B5/20 with reset means necessitating a separate operation to return the indicator element
- G08B5/22 . . . using electric transmission; using electro-magnetic transmission
- G08B5/22A . . . [N: Local indication of seats occupied in a facility, e.g. in a theatre] [C1202]

- G08B5/22C . . [N: Personal calling arrangements or devices, i.e. paging systems (selective calling systems and call receivers [H04Q7/06](#), [H04Q7/20](#), [H04W68/00](#))] [C1202]
- G08B5/22C1 . . . [N: using wireless transmission]
- G08B5/22C1B [N: Paging receivers with visible signalling details]
- G08B5/22C1B2 [N: Display details]
- G08B5/22C1B2A [N: with alphanumeric or graphic display means]
- G08B5/22C1B4 [N: with call or message storage means]
- G08B5/22C1B6 [N: combined with other devices having a different main function, e.g. watches]
- G08B5/22C1B8 [N: with other provisions not elsewhere provided for]
- G08B5/24 . . with indicator element moving about a pivot, e.g. hinged flap, rotating vane [N: (signalling devices for telephones [H04M19/04](#); telecontrolling indicating devices, e.g. hinged flap [74C1A](#), [G08C19/30](#); signalling systems for auctioneering devices [H04L12/18B](#))]
- G08B5/26 . . . with reset means necessitating a separate operation to return the indicator element
- G08B5/28 . . . with hinged flap or arm
- G08B5/30 . . . with rotating or oscillating members, e.g. vanes
- G08B5/32 . . with indicator element moving rectilinearly
- G08B5/34 . . . with reset means necessitating a separate operation to return the indicator element
- G08B5/36 . . using visible light sources
- G08B5/38 . . . using flashing light [N: circuit arrangements for flashing lamps [H05B41/30](#), [H05B39/09](#); arrangements on vehicles [B60Q1/34](#), [B60Q1/46](#)]
- G08B5/40 . . using smoke, fire or coloured gases (sky-writing [G09F21/16](#)) [N: missiles, e.g. of tracer, illuminating, signal or smoke producing type [F42B](#); chemical compositions therefor [C06B](#); smoke producers for aircraft [B64D1/16](#) to [B64D1/20](#); for personal calling arrangements see provisionally [G08B3/10B](#), [G08B3/10B1](#)]

- G08B6/00** **Tactile signalling systems, e.g. personal calling systems** (indication of time by feeling [G04B25/02](#); deaf-aid sets [H04R25/00](#)) [N: (apparatus for generating mechanical vibrations [B06B1/04B](#); motors converting reciprocating into rotary movement or vice-versa [H02K7/06](#); motors with reciprocating, oscillating, or vibrating magnet, armature, or coil system [H02K33/00](#); telephone hand set vibration alarms [T04M19/04T](#))] [N9504] [C1202]

- G08B7/00** **Signalling systems according to more than one of groups [G08B3/00](#) to [G08B6/00](#)** (combinations of display arrangements with audible advertising [G09F27/00](#)); **Personal calling systems according to more than one of groups [G08B3/00](#) to [G08B6/00](#)** [N: (combinations of display devices with advertising [G09F](#))] [C9508]

- G08B7/02 . . using mechanical transmission
- G08B7/04 . . using hydraulic transmission; using pneumatic transmission
- G08B7/06 . . using electric transmission [N: e.g. involving audible and visible signalling through the use of sound and light sources (walking aids for blind persons [A61H3/06](#); facilitating escape from buildings [A62B3/00](#))] [C1202]
- G08B7/06E . . [N: indicating emergency exits (signs, boards or panels illuminated from behind,

- indicating exit way or orientation [S09F13/04R9](#)] [N1202]
- G08B7/06H
 - . . [N: indicating houses needing emergency help, e.g. with a flashing light or sound] [N1202]
- G08B7/06P
 - . . [N: guiding along a path, e.g. evacuation path lighting strip] [N1202]
- G08B7/06W
 - . . [N: calling personnel in a restaurant, e.g. waiter call] [N1202]
- G08B7/08
 - . using explosives
- G08B9/00**

Order telegraph apparatus, i.e. means for transmitting one of a finite number of different orders at the discretion of the user, e.g. bridge to engine room orders in ships (signalling devices in mines [E21F17/18](#)) [M1202]
- G08B9/02
 - . Details
- G08B9/04
 - . . Means for recording operation of the apparatus
- G08B9/06
 - . . Means for indicating disagreement between orders given and those carried out
- G08B9/08
 - . mechanical
- G08B9/10
 - . . using ratchet [N: see provisionally [G08B9/08](#)]
- G08B9/12
 - . . using rotary shaft [N: see provisionally [G08B9/08](#)]
- G08B9/14
 - . hydraulic; pneumatic
- G08B9/16
 - . . using ratchet [N: see provisionally [G08B9/14](#)]
- G08B9/18
 - . . by varying displacement of the fluid [N: see provisionally [G08B9/14](#)]
- G08B9/20
 - . . by varying pressure of the fluid [N: see provisionally [G08B9/14](#)]
- G08B13/00**

Burglar, theft, or intruder alarms (vehicle theft alarms [B60R25/10](#); cycle theft alarms [B62H5/00](#)) [N: (fire or police telegraphic systems [G08B25/00](#), [G08B26/00](#), [H04M11/04](#))] [M1202]
- G08B13/02
 - . Mechanical actuation
- G08B13/04
 - . . by breaking of glass
- G08B13/06
 - . . by tampering with fastening (alarm locks [E05B45/00](#); alarm devices on safes [E05G1/10](#)) [N: (anti-theft means in containers [L65D211/00](#))] [C1202]
- G08B13/08
 - . . by opening, e.g. of door, of window, of drawer, of shutter, of curtain, of blind [N: (alarm locks [E05B45/00](#); electrical switches operated by opening or closing of a door [H01H13/18](#))]
- G08B13/10
 - . . by pressure on floors, floor coverings, stair treads, counters, or tills [N: (contact cables, contact carpets [H01B7/10](#); electrical switches operated by change of a non-electrical or thermal condition [H01H9/00](#); treadles for traffic control [G08G1/02](#))]
- G08B13/12
 - . . by the breaking or disturbance of stretched cords or wires
- G08B13/12F
 - . . . [N: for a perimeter fence (features peculiar to electrified fences [A01K3/00](#); fences per se [E04H17/00](#))] [N1202]
- G08B13/12F1
 - [N: with the breaking or disturbance being optically detected, e.g. optical fibers in the perimeter fence] [N1202]
- G08B13/12H
 - . . . [N: for a housing, e.g. a box, a safe, a room (anti-theft means in containers [L65D211/00](#))] [N1202]

- G08B13/12H1 [N: the housing being an electronic circuit unit, e.g. memory or CPU chip (protecting computer components in secure or tamper resistant housings [G06F21/00N1T](#); protecting computer input devices, e.g. keyboards [G06F21/00N1V1](#))] [N1202]
- G08B13/14 . . by lifting or attempted removal of hand-portable articles [N: (devices to prevent theft or loss of purses, luggage or hand carried bags [A45C13/18](#))] [M1202]
- G08B13/14B [N: for removal detection of electrical appliances by detecting their physical disconnection from an electrical system, e.g. using a switch incorporated in the plug connector] [C1202]
- G08B13/14B1 [N: Removal detected by failure in electrical connection between the appliance and a control centre, home control panel or a power supply] [N1202]
- G08B13/14D [N: with transmitter-receiver for distance detection]

[N: **Note** [N1202]
Details thereof are further classified in the subgroups of [G08B21/02A](#)]
- G08B13/14F [N: with motion detection]
- G08B13/14H [N: with detection of interference with a cable tethering an article, e.g. alarm activated by detecting detachment of article, breaking or stretching of cable (furniture, e.g. shelves for displaying merchandise, incorporating tethers to prevent theft [A47F7/024](#), [A47F5/08B5](#))] [C1202]
- G08B13/14H2 [N: Circuit arrangements thereof] [N1202]
- G08B13/14H4 [N: Physical arrangements, e.g. housings (devices to prevent theft or loss of purses, luggage or hand carried bags [A45C13/18](#))] [N1202]
- G08B13/14L [N: with force or weight detection]
- G08B13/14N [N: with optical detection]
- G08B13/14P [N: with electric, magnetic, capacitive switch actuation]
- G08B13/16 . . Actuation by interference with mechanical vibrations in air or other fluid
- G08B13/16A [N: using active vibration detection systems (active detection systems per se [G01S](#))]
- G08B13/16A1 [N: using ultrasonic detection means]
- G08B13/16A1A [N: using Doppler shift detection circuits]
- G08B13/16A1B [N: using pulse-type detection circuits]
- G08B13/16A2 [N: using ultrasonic detection means and other detection means, e.g. microwave or infra-red radiation]
- G08B13/16B [N: using passive vibration detection systems]
- G08B13/16B1 [N: using seismic sensing means]
- G08B13/16B2 [N: using sonic detecting means, e.g. a microphone operating in the audio frequency range] [C1202]
- G08B13/16B3 [N: using infrasonic detecting means, e.g. a microphone operating below the audible frequency range] [C1202]
- G08B13/16B4 [N: using cable transducer means]
- G08B13/18 . . Actuation by interference with heat, light or radiation of shorter wavelength; Actuation by intruding sources of heat, light or radiation of shorter wavelength [N: signalling devices using photo-electric devices in general [G09F](#)]
- G08B13/181 using active radiation detection systems

- G08B13/183 . . . by interruption of a radiation beam or barrier ([light barriers G01V8/10](#)) [N: ([industrial safety devices with photocells F16P3/14](#))] [C1202]
- G08B13/184 using radiation reflectors
- G08B13/186 using light guides, e.g. optical fibres
- G08B13/187 . . . by interference of a radiation field
- G08B13/189 . . using passive radiation detection systems
- G08B13/189B . . . [N: using [light change detection systems \(G08B13/194 takes precedence\)](#)]
- G08B13/19 . . . using infra-red radiation detection systems [N: ([G08B13/194 takes precedence](#); [lighting devices activated by motion detection F21V23/04S](#); radiation pyrometry per se [G01J5/00](#); [controlling circuits for electric light sources activated by motion detection H05B37/02B4](#))] [C1112]
- G08B13/191 using pyroelectric sensor means
- G08B13/193 using focusing means
- G08B13/194 . . . using image scanning and comparing systems
- G08B13/196 using television cameras [N: ([recognition of scenes under surveillance G06K9/00V4](#); [image analysis per se G06T7/00](#); [television cameras H04N5/225](#); [CCTV systems H04N7/18](#))] [C1112]
- G08B13/196A [N: Image analysis to detect motion of the intruder, e.g. by frame subtraction] [N1112]
- G08B13/196A1 [N: involving reference image or background adaptation with time to compensate for changing conditions, e.g. reference image update on detection of light level change] [N1112]
- G08B13/196A2 [N: Discriminating between target movement or movement in an area of interest and other non-signicative movements, e.g. target movements induced by camera shake or movements of pets, falling leaves, rotating fan] [N1112]
- G08B13/196A3 [N: Tracking movement of a target, e.g. by detecting an object predefined as a target, using target direction and or velocity to predict its new position ([analysis of motion by image processing per se G06T7/20](#))] [N1112]
- G08B13/196A4 [N: Movement detection not involving frame subtraction, e.g. motion detection on the basis of luminance changes in the image] [N1112]
- G08B13/196A5 [N: Recognition of a predetermined image pattern or behaviour pattern indicating theft or intrusion] [N1112]
- G08B13/196A5M {7 dots} [N: wherein said pattern is defined by the user] [N1112]
- G08B13/196C [N: Surveillance camera constructional details] (not used) [N1112]
- G08B13/196C1 [N: Details of casing] [N1112]
- G08B13/196C2 [N: Portable camera] [N1112]
- G08B13/196C3 [N: Arrangements allowing camera linear motion, e.g. camera moving along a rail cable or track] [N1112]
- G08B13/196C4 [N: optical details, e.g. lenses, mirrors, multiple lenses ([G08B13/196C4W takes precedence](#))] [N1112]
- G08B13/196C4W {7 dots} [N: of wide angled cameras and camera groups, e.g. omni-directional cameras, fish eye, single units having multiple cameras achieving a wide angle view] [N1112]
- G08B13/196C5 [N: Arrangements allowing camera rotation to change view, e.g. pivoting camera, pan-tilt and zoom (PTZ)] [N1112]
- G08B13/196C6 [N: Camera support structures, e.g. attachment means, poles] [N1112]
- G08B13/196E [N: Electrical details of the system, e.g. component blocks for carrying out

		specific functions] [N1112]
G08B13/196E1	. . . . .	[N: pertaining to the camera] [N1112]
G08B13/196L	. . . . .	[N: Details of the system layout] (not used) [N1112]
G08B13/196L1	. . . . .	[N: Multiple cameras having overlapping views on a single scene] [N1112]
G08B13/196L1D	. . . . .	{7 dots} [N: wherein the cameras play different roles, e.g. different resolution, different camera type, master-slave camera] [N1112]
G08B13/196L2	. . . . .	[N: Multiple cameras, each having view on one of a plurality of scenes, e.g. multiple cameras for multi-room surveillance or for tracking an object by view hand-over] [N1112]
G08B13/196L3	. . . . .	[N: Systems specially adapted for intrusion detection in or around a vehicle] [N1112]
G08B13/196L3A	. . . . .	{7 dots} [N: the vehicle being an aircraft] [N1112]
G08B13/196L4	. . . . .	[N: Systems using zones in a single scene defined for different treatment, e.g. outer zone gives pre-alarm, inner zone gives alarm] [N1112]
G08B13/196N	. . . . .	[N: Details concerning communication with a camera (not used)] [N1112]
G08B13/196N1	. . . . .	[N: Network used to communicate with a camera, e.g. WAN, LAN, Internet] [N1112]
G08B13/196N2	. . . . .	[N: Telephone systems used to communicate with a camera, e.g. PSTN, GSM, POTS] [N1112]
G08B13/196N3	. . . . .	[N: Wireless systems, other than telephone systems, used to communicate with a camera] [N1112]
G08B13/196P	. . . . .	[N: Surveillance related processing done local to the camera] [N1112]
G08B13/196S	. . . . .	[N: Details related to the storage of video surveillance data (television signal recording H04N5/76) (not used)] [N1112]
G08B13/196S1	. . . . .	[N: Details realated to data compression, encryption or encoding, e.g. resolution modes for reducing data volume to lower transmission bandwidth or memory requirements] [N1112]
G08B13/196S2	. . . . .	[N: Event triggers storage or change of storage policy] [N1112]
G08B13/196S3	. . . . .	[N: Addition of non-video data, i.e. metadata, to video stream] [N1112]
G08B13/196S3T	. . . . .	{7 dots} [N: Addition of time stamp, i.e. time metadata, to video stream] [N1112]
G08B13/196S4	. . . . .	[N: Temporary storage, e.g. cyclic memory, buffer storage on pre-alarm] [N1112]
G08B13/196U	. . . . .	[N: User interface (not used)] [N1112]
G08B13/196U1	. . . . .	[N: Interfaces for setting up or customising the system] [N1112]
G08B13/196U2	. . . . .	[N: Graphic User Interface [GUI] presenting system data to the user, e.g. information on a screen helping a user interacting with an alarm system] [N1112]
G08B13/196U3	. . . . .	[N: Portable terminal, e.g. mobile phone, used for viewing video remotely] [N1112]
G08B13/196U4	. . . . .	[N: Interfaces masking personal details for privacy, e.g. blurring faces, vehicle license plates] [N1112]
G08B13/196U5	. . . . .	[N: Remote control of cameras, e.g. remote orientation or image zooming control for a PTZ camera] [N1112]
G08B13/196U6	. . . . .	[N: Signalling events for better perception by user, e.g. indicating alarms by making display brighter, adding text, creating a sound] [N1112]

G08B13/196U6M	. . . . .	{7 dots} [N: using multiple video sources viewed on a single or compound screen] [N1112]
G08B13/196W	. . . . .	[N: Arrangements wherein non-video detectors start video recording or forwarding but do not generate an alarm themselves] [N1112]
G08B13/196Y	. . . . .	[N: Arrangements wherein non-video detectors generate an alarm themselves] [N1112]
G08B13/20	. . . . .	Actuation by change of fluid pressure
G08B13/22	. . . . .	Electrical actuation [N: (G08B13/24C2 takes precedence)]
G08B13/24	. . . . .	by interference with electromagnetic field distribution [N: (signals actuated by trains B61L ; metal detectors using induction coils G01V3/10 ; metal detectors combined with record carrier readers G06K7/08C2M)]
G08B13/24B	. . . . .	[N: Electronic Article Surveillance [EAS], i.e. systems using tags for detecting removal of a tagged item from a secure area, e.g. tags for detecting shoplifting (mechanical aspects of the tags, e.g. related to locking E05B73/00B ; RFID readers G06K7/00 ; RFID tags G06K19/00 ; access control systems G07C9/00 ; anti-theft control in point of sale systems G07G3/00B ; security seals G09F3/03)]
G08B13/24B1	. . . . .	[N: characterised by the tag technology used (not used)] [N1112]
G08B13/24B1F	. . . . .	[N: using ferromagnetic tags] [N1112]
G08B13/24B1F2	. . . . .	[N: Tag deactivation] [N1112]
G08B13/24B1G	. . . . .	[N: using inductive tags] [N1112]
G08B13/24B1G1	. . . . .	[N: having a radio frequency identification chip (radio frequency identification tags per se G06K19/00 ; inventory or logistics in general G06Q10/00)] [N1112]
G08B13/24B1G2	. . . . .	[N: Tag deactivation] [N1112]
G08B13/24B1M	. . . . .	[N: using acoustic or microwave tags] [N1112]
G08B13/24B1M2	. . . . .	[N: Tag deactivation] [N1112]
G08B13/24B3	. . . . .	[N: Tag details (not used)] [N1112]
G08B13/24B3C	. . . . .	[N: Tag circuit details] [N1112]
G08B13/24B3H	. . . . .	[N: Tag housing and attachment details (transponders in containers L65D203/10 ; anti-theft means in containers L65D211/00)] [N1112]
G08B13/24B3M	. . . . .	[N: Tag layered structure, processes for making layered tags] [N1112]
G08B13/24B3M1	. . . . .	[N: Tag manufacturing, e.g. continuous manufacturing processes] [N1112]
G08B13/24B3M2	. . . . .	[N: Tag materials and material properties thereof, e.g. magnetic material details] [N1112]
G08B13/24B3M3	. . . . .	[N: Tag integrated into item to be protected, e.g. source tagging (anti-theft means in containers L65D211/00)] [N1112]
G08B13/24B3U	. . . . .	[N: Tag with at least dual detection means, e.g. combined inductive and ferromagnetic tags, dual frequencies within a single technology, tampering detection or signalling means on the tag] [N1112]
G08B13/24B5	. . . . .	[N: Specific applications combined with EAS (not used)] [N1112]
G08B13/24B5E	. . . . .	[N: Checking of authorisation of a person accessing tagged items in an EAS system] [N1112]
G08B13/24B5L	. . . . .	[N: Lending systems using EAS tags wherein the tags are reusable, e.g. they can be activated and deactivated more than once, e.g. for a library] [N1112]
G08B13/24B5P	. . . . .	[N: Check out systems combined with EAS, e.g. price information stored

- on EAS tag (anti-theft systems in point of sale systems [G07G3/00B](#)) [N1112]
- G08B13/24B5T [N: Asset location systems combined with EAS (inventory, tracking, logistic [G06Q10/00](#); entrance control systems [G07C9/00](#))] [N1112]
- G08B13/24B7 [N: Aspects related to the EAS system, e.g. system components other than tags (not used)] [N1112]
- G08B13/24B7A [N: Antenna in system and the related signal processing (not used)] [N1112]
- G08B13/24B7A1 [N: Antenna signal processing by receiver or emitter [N1112]
- G08B13/24B7A2 [N: Antenna or antenna activator geometry, arrangement or layout (loop antennae [H01Q1/22](#))] [N1112]
- G08B13/24B7A3 [N: Antenna or antenna activator circuit] [N1112]
- G08B13/24B7D [N: EAS system combined with another detection technology, e.g. dual EAS and video or other presence detection system] [N1112]
- G08B13/24B7M [N: EAS methods, e.g. description of flow chart of the detection procedure] [N1112]
- G08B13/24B7S [N: Simultaneous detection of multiple EAS tags] [N1112]
- G08B13/24B7Y [N: Timing issues, e.g. synchronising measures to avoid signal collision, with multiple emitters or a single emitter and receiver] [N1112]
- G08B13/24C [N: Intrusion detection systems, i.e. where the body of an intruder causes the interference with the electromagnetic field] [C1112]
- G08B13/24C2 [N: by interference with electro-magnetic field distribution combined with other electrical sensor means, e.g. microwave detectors combined with other sensor means] [C1112]
- G08B13/24C4 [N: using transmission lines, e.g. cable]
- G08B13/26 . . . by proximity of an intruder causing variation in capacitance or inductance of a circuit

- G08B15/00** **Identifying, scaring or incapacitating burglars, thieves, or intruders, e.g. by explosives (burglar traps or the like, on safes [E05G5/02](#); [N: devices to prevent loss of bags, trunks or travelling baskets by producing sound, piercing, gas-discharging or the like [A45C13/24](#); alarm locks [E05B45/00](#), e.g. with detonating alarm [E05B45/04](#)])**
- G08B15/00C . . . [N: Concealed systems, e.g. disguised alarm systems to make covert systems] [N1112]
- G08B15/00D . . . [N: with occupancy simulation]
- G08B15/00F . . . [N: using portable personal devices (hand-held or body-worn self-defence devices using repellent gases or chemicals [F41H9/10](#))]
- G08B15/00H . . . [N: by electric shock]
- G08B15/00L . . . [N: by trapping]
- G08B15/00M . . . [N: by simulating the existence of a security system, e.g. a mock video camera to scare thieves] [N1112]
- G08B15/02 . . . with smoke, gas, or coloured or odorous powder or liquid

- G08B17/00** **Fire alarms; Alarms responsive to explosion (temperature-responsive elements [G01K](#);**

[N: automatic fire-extinguishing and alarm devices [A62C35/00](#), [A62C37/00](#); structural combination of lighting devices with smoke detectors [F21V33/00D4](#); arrangement of safety devices on stoves [F24C7/08](#)] [C1112]

- G08B17/00F . [N: for forest fires, e.g. detecting fires spread over a large or outdoors area (**fire fighting forest fires** [A62C3/02](#))] [N1112]
- G08B17/02 . Mechanical actuation of the alarm, e.g. by the breaking of a wire
- G08B17/04 . Hydraulic or pneumatic actuation of the alarm, e.g. by change of fluid pressure
- G08B17/06 . Electric actuation of the alarm, e.g. using a thermally-operated switch (**thermally-operated electric switches per se** [H01H37/00](#))
- G08B17/08 . Actuation involving the use of explosive means
- G08B17/10 . Actuation by presence of smoke or gases [N: automatic alarm devices for analysing flowing fluid materials by the use of optical means (**turbidimetric analysis of gases, e.g. of smoke** [G01N21/53B](#))]
- G08B17/103 . . using a light-emitting and receiving device
- G08B17/107 . . . for detecting light-scattering due to smoke
- G08B17/11 . . using an ionisation chamber for detecting smoke or gas (**vacuum gauges making use of ionisation effects** [G01L21/30](#); **gas analysis by investigating the ionisation** [G01N27/62](#))
- G08B17/113 . . . Constructional details (**discharge tubes for measuring pressure of introduced gas, or for detecting presence of gas, in general** [H01J41/02](#))
- G08B17/117 . . by using a detection device for specific gases, e.g. combustion products, produced by the fire ([G08B17/103](#), [G08B17/11](#) take precedence; **investigating or analysing gases in general** [G01N](#), e.g. by using electric means [G01N27/00](#); [N: **particle spectrometers per se** [H01J49/00](#)])
- G08B17/12 . Actuation by presence of radiation or particles, e.g. of infra-red radiation, of ions [N: **alarm or controlling circuits using ionisation chamber, proportional counters or Geiger-Müller tubes also functioning as u-v detectors** [G01T7/12B](#); **flame detection in burners** [F23N5](#)] [C1112]
- G08B17/12V . . [N: by using a video camera to detect fire or smoke] [N1112]
- G08B19/00** **Alarms responsive to two or more different undesired or abnormal conditions, e.g. burglary and fire, abnormal temperature and abnormal rate of flow [M1112]**
- G08B19/00B . [N: combined burglary and fire alarm systems]
- G08B19/02 . Alarm responsive to formation or anticipated formation of ice (**indicating weather conditions** [G01W1/00](#))
- G08B21/00** **Alarms responsive to a single specified undesired or abnormal operating condition and not elsewhere provided for [N: (**alarms on gas pipes** [F17D3/01](#))]**
- G08B21/02 . Alarms for ensuring the safety of persons [N0302]
- G08B21/02A . . [N: **Child monitoring systems using a transmitter-receiver system carried by the**

		parent and the child] [N1112]
G08B21/02A1	. . .	[N: Specific application combined with child monitoring using a transmitter-receiver system (not used)] [N1112]
G08B21/02A1B	. . . .	[N: Combination with audio or video communication, e.g. combination with "baby phone" function] [N1112]
G08B21/02A1C	. . . .	[N: Combination with medical sensor, e.g. for measuring heart rate, temperature] [N1112]
G08B21/02A1D	. . . .	[N: System disabling if a separation threshold is exceeded (disabling electrical appliances in case of unplugging G08B13/14B)] [N1112]
G08B21/02A2	. . .	[N: Alarm cancellation after generation] [N1112]
G08B21/02A3	. . .	[N: Circuit arrangements] [N1112]
G08B21/02A4	. . .	[N: Message structure or message content, e.g. message protocol] [N1112]
G08B21/02A5	. . .	[N: Monitoring making use of different thresholds, e.g. for different alarm levels] [N1112]
G08B21/02A6	. . .	[N: System arrangements with a plurality of child units] [N1112]
G08B21/02A7	. . .	[N: Power management, e.g. system sleep and wake up provisions] [N1112]
G08B21/02A8	. . .	[N: System arrangements with pre-alarms, e.g. when a first distance is exceeded] [N1112]
G08B21/02A9	. . .	[N: Threshold setting] [N1112]
G08B21/02A10	. . .	[N: adding new units to the system] [N1112]
G08B21/02A11	. . .	[N: Data exchange details, e.g. data protocol] [N1204] [C1205]
G08B21/02A11B	. . . .	[N: System arrangements wherein the alarm criteria uses signal delay or phase shift] [N1204]
G08B21/02A11E	. . . .	[N: System arrangements wherein the alarm criteria uses signal strength] [N1204]
G08B21/02A11G	. . . .	[N: System arrangements wherein the alarm criteria uses absence of reply signal after an elapsed time] [N1204]
G08B21/02A11M	. . . .	[N: System arrangements wherein the child unit emits, i.e. the child unit incorporates the emitter] [N1204]
G08B21/02A11P	. . . .	[N: System arrangements wherein the parent unit emits, i.e. the parent unit incorporates the emitter] [N1204]
G08B21/02A11R	. . . .	[N: System arrangements wherein both parent and child units can emit and receive] [N1204]
G08B21/02A18	. . .	[N: System arrangements wherein the object is to detect trespassing over a fixed physical boundary, e.g. the end of a garden] [N1112]
G08B21/02A19	. . .	[N: System arrangements wherein the object is to detect the direction in which child or item is located] [N1112]
G08B21/02A20	. . .	[N: System arrangements wherein the object is to detect the exact distance between parent and child or surveyor and item] [N1112]
G08B21/02A21	. . .	[N: System arrangements wherein the object is to detect the exact location of child or item using a navigation satellite system, e.g. GPS] [N1112]
G08B21/02A22	. . .	[N: System arrangements wherein the object is to detect exact location of child or item using triangulation other than GPS] [N1112]
G08B21/02A23	. . .	[N: Electronic Article Surveillance [EAS] tag technology used for parent or child unit, e.g. same transmission technology, magnetic tag, RF tag, RFID] [N1112]
G08B21/02A24	. . .	[N: Communication between units on a local network, e.g. Bluetooth, piconet, zigbee, Wireless Personal Area Networks [WPAN]] [N1112]
G08B21/02A25	. . .	[N: Communication between parent and child units via remote transmission

- means, e.g. satellite network] [N1112]
- G08B21/02A25T [N: via a telephone network, e.g. cellular GSM] [N1112]
- G08B21/02A26 [N: Tampering or removal detection of the child unit from child or article.] [N1112]
- G08B21/02A27 [N: Attachment of child unit to child/article] [N1112]
- G08B21/02A28 [N: Housing and user interface of child unit] [N1112]
- G08B21/02A29 [N: Display details on parent unit] [N1112]
- G08B21/02B [N: Robbery alarms, e.g. hold-up alarms, bag snatching alarms] [N0302] [C1112]
- G08B21/04 . . . responsive to non-activity, e.g. of elderly persons ([G08B21/06](#) takes precedence) [N0302]
- G08B21/04A [N: based on behaviour analysis (not used)] [N1112]
- G08B21/04A1 [N: detecting absence of activity per se] [N1112]
- G08B21/04A2 [N: detecting deviation from an expected pattern of behaviour or schedule] [N1112]
- G08B21/04A3 [N: detecting an emergency event, e.g. a fall] [N1112]
- G08B21/04S [N: Sensor means for detecting (not used)] [N1112]
- G08B21/04S1 [N: worn on the body to detect changes of posture, e.g. a fall, inclination, acceleration, gait] [N1112]
- G08B21/04S2 [N: worn on the body to detect health condition by physiological monitoring, e.g. electrocardiogram, temperature, breathing (detecting, measuring or recording for diagnostic purposes A61B5)] [N1112]
- G08B21/04S3 [N: integrated or attached to an item closely associated with the person but not worn by the person, e.g. chair, walking stick, bed sensor] [N1112]
- G08B21/04S4 [N: Presence detectors to detect unsafe condition, e.g. infrared sensor, microphone ([G08B21/04S5](#) takes precedence)] [N1112]
- G08B21/04S5 [N: Cameras to detect unsafe condition, e.g. video cameras] [N1112]
- G08B21/04S6 [N: Arrangements monitoring consumption of a utility or use of an appliance which consumes a utility to detect unsafe condition, e.g. metering of water, gas or electricity, use of taps, toilet flush, gas stove or electric kettle.] [N1112]
- G08B21/04S7 [N: Sensor dual technology, i.e. two or more technologies collaborate to extract unsafe condition, e.g. video tracking and RFID tracking] [N1112]
- G08B21/06 . . . indicating a condition of sleep, e.g. anti-dozing alarms ([safety devices for propulsion-unit control of vehicles responsive to incapacity of driver B60K28/06](#); [N: psychotechnic analysis of vehicle drivers [A61B5/18](#)]) [N0302] [C1112]
- G08B21/08 . . . responsive to the presence of persons in a body of water, e.g. a swimming pool; responsive to an abnormal condition of a body of water [N0302]
- G08B21/08E [N: by monitoring electrical characteristics of the water] [N1112]
- G08B21/08M [N: by monitoring physical movement characteristics of the water] [N1112]
- G08B21/08P [N: by monitoring a perimeter outside the body of the water] [N1112]
- G08B21/08W [N: by monitoring a device worn by the person, e.g. a bracelet attached to the swimmer] [N1112]
- G08B21/10 . . . responsive to calamitous events, e.g. tornados, earthquakes ([seismology G01V1/00](#); [indicating weather conditions G01W1/00](#)) [N0302]
- G08B21/12 . . . responsive to undesired emission of substances, e.g. pollution alarms [N0302]
- G08B21/14 Toxic gas alarms ([G08B21/16](#) takes precedence) [N0302]
- G08B21/16 Combustible gas alarms [N0302]

- G08B21/18 . Status alarms ([G08B21/02](#) takes precedence) [N0302]
- G08B21/18B . . [N: Level alarms, e.g. alarms responsive to variables exceeding a threshold] [N0302] [M1112]
- G08B21/18E . . [N: Electrical failure alarms] [N1112]
- G08B21/18M . . [N: Machine fault alarms] [N1112]
- G08B21/20 . . responsive to moisture [N0302]
- G08B21/22 . . responsive to presence or absence of persons [N0302]
- G08B21/24 . . Reminder alarms, e.g. anti-loss alarms ([devices to prevent loss of bags or the like A45C13/24](#)) [N0302]
- G08B21/24H . . . [N: Reminder of hygiene compliance policies, e.g. of washing hands ([Measuring quality of medical staff, G06F19/00M5S](#))] [N1112]

- G08B23/00** **Alarms responsive to unspecified undesired or abnormal conditions**

- G08B25/00** **Alarm systems in which the location of the alarm condition is signalled to a central station, e.g. fire or police telegraphic systems [N: (signalling systems in general G08C)]**

- G08B25/00B . [N: Alarm cancelling procedures or alarm forwarding decisions, e.g. based on absence of alarm confirmation] [N1112]
- G08B25/00D . [N: Generating a prealarm to the central station] [N1112]
- G08B25/00F . [N: Address allocation methods and details] [N1112]
- G08B25/00H . [N: Alarm propagated along alternative communication path or using alternative communication medium according to a hierarchy of available ways to communicate, e.g. if Wi-Fi not available use GSM] [N1112]
- G08B25/00J . [N: Alarm destination chosen according to a hierarchy of available destinations, e.g. if hospital does not answer send to police station] [N1112]
- G08B25/00L . [N: Alarm destination chosen according to type of event, e.g. in case of fire phone the fire service, in case of medical emergency phone the ambulance] [N1112]
- G08B25/00N . [N: Details of data content structure of message packets; data protocols] [N1112]
- G08B25/00P . [N: Alarm setting and unsetting, i.e. arming or disarming of the security system] [N1112]
- G08B25/00S . [N: Signalling of the alarm condition to a substation whose identity is signalled to a central station, e.g. relaying alarm signals in order to extend communication range] [C0711]

- G08B25/01 . characterised by the transmission medium
- G08B25/01B . . [N: using recorded signals, e.g. speech ([G08B25/08](#) takes precedence)]
- G08B25/01C . . [N: Alarm signalling to a central station with two-way communication, e.g. with signalling back]

- G08B25/01D . . [N: Personal emergency signalling and security systems (emergency non-personal manually actuated alarm activators [G08B25/12](#))] [C0711]
- G08B25/01E . . [N: Sensor coding by detecting magnitude of an electrical parameter, e.g. resistance] [C1112]
- G08B25/04 . . using a single signalling line, e.g. in a closed loop
- G08B25/04A . . . [N: with sensing devices and central station in a closed loop, e.g. McCullough loop]
- G08B25/06 . . using power transmission lines (systems in general for transmission of information via power distribution lines [H04B3/54](#))
- G08B25/08 . . using communication transmission lines, [N: e.g. complete alarm systems using telephone lines for transmission of the alarm] (telephone communication systems combined with alarm systems [H04M11/04](#)) [N: ([G08B13/196N2](#), [G08B21/02A26](#), [G08B25/01D](#) take precedence)] [C1112]
- G08B25/08B . . . [N: using central distribution transmission lines]
- G08B25/10 . . using wireless transmission systems [N: ([G08B25/00S](#) takes precedence)] [C1112]
- G08B25/12 . Manually actuated calamity alarm transmitting arrangements [N: emergency non-personal manually actuated alarm, activators, e.g. details of alarm push buttons mounted on an infrastructure] [C0711]
- G08B25/14 . Central alarm receiver or annunciator arrangements

G08B26/00**Alarm systems in which substations are interrogated in succession by a central station**

- G08B26/00B . [N: with individual interrogation of substations connected in parallel]
- G08B26/00B1 . . [N: only replying the state of the sensor]
- G08B26/00B2 . . [N: replying the identity and the state of the sensor]
- G08B26/00D . [N: with common interrogation of substations]
- G08B26/00F . [N: with substations connected in series, e.g. cascade]
- G08B26/00H . [N: with substations connected to an individual line, e.g. star configuration]
- G08B26/00L . [N: Wireless interrogation]
- G08B26/00N . [N: central annunciator means of the sensed conditions, e.g. displaying or registering]

G08B27/00**Alarm systems in which the alarm condition is signalled from a central station to a plurality of substations [N: (signalling systems in general G08C)]**

- G08B27/00E . [N: Signalling to an emergency team, e.g. firemen] [N1112]
- G08B27/00H . [N: Signalling to neighbouring houses] [N1112]
- G08B27/00N . [N: with transmission via computer network] [N1112]
- G08B27/00P . [N: with transmission via telephone network] [N1112]
- G08B27/00T . [N: with transmission via TV or radio broadcast] [N1112]

- G08B29/00** **Checking or monitoring of signalling or alarm systems; Prevention or correction of operating errors, e.g. preventing unauthorised operation [N: (arrangements for testing electric properties, arrangements for locating electric faults [G01R31/00](#))]**
- G08B29/02 . Monitoring continuously signalling or alarm systems
- G08B29/04 . . Monitoring of the detection circuits
- G08B29/04A . . . [N: of fire detection circuits]
- G08B29/04B . . . [N: prevention of tampering with detection circuits]
- G08B29/06 . . Monitoring of the line circuits, e.g. signalling of line faults (testing or locating faults in cables or lines in general [G01R31/02](#), [G01R31/08](#))
- G08B29/08 . . . Signalling of tampering with the line circuit
- G08B29/10 . . Monitoring of the annunciator circuits
- G08B29/12 . Checking intermittently signalling or alarm systems
- G08B29/12A . . [N: of line circuits (testing or locating faults in cables or lines in general [G01R31/02B](#), [G01R31/02C](#), [G01R31/08](#))]
- G08B29/12B . . [N: of annunciator circuits]
- G08B29/14 . . checking the detection circuits
- G08B29/14A . . . [N: of fire detection circuits]
- G08B29/16 . Security signalling or alarm systems, e.g. redundant systems
- G08B29/18 . Prevention or correction of operating errors ([G08B29/02](#), [G08B29/12](#) take precedence) [C1112]
- G08B29/18A . . [N: due to failing power supply]
- G08B29/18D . . [N: Single detectors using dual technologies ([G08B13/16B2](#), [G08B13/24B3U](#), [G08B13/24C2](#) take precedence)] [N1112]
- G08B29/18S . . [N: Signal analysis techniques for reducing or preventing false alarms or for enhancing the reliability of the system] [N1112]
- G08B29/18S1 . . . [N: Fuzzy logic; neural networks] [N1112]
- G08B29/18S2 . . . [N: Data fusion; cooperative systems, e.g. voting among different detectors] [N1112]
- G08B29/20 . . Calibration, including self-calibrating arrangements
- G08B29/22 . . . Provisions facilitating manual calibration, e.g. input or output provisions for testing ; Holding of intermittent values to permit measurement
- G08B29/24 . . . Self-calibration, e.g. compensating for environmental drift or ageing of components
- G08B29/26 by updating and storing reference thresholds
- G08B29/28 by changing the gain of an amplifier
- G08B31/00** **Predictive alarm systems characterised by extrapolation or other computation using updated historic data**