

CLAIMS

1. A transit indicator device (50; 50a-50n; 250; 350; 450) for use at or within a cable, pipe or wire transit (1; 1a... 1n; 400) having one or more transit elements (10, 20, 30, 40; 42; 400) for forming a sealed installation of one or more cables (2), pipes or wires, the transit indicator device comprising:
- a communication interface (56) to a communication network (60; 60a-c; 61, 61a-n, 62);
 - a visual indicator unit (90; 90a-90n; 290; 390); and
 - a controller (51) operatively connected with the communication interface (56) and the visual indicator unit (90; 90a-90n; 290; 390), the controller (51) being configured to receive a remote instruction (76) from the communication network (60; 60a-c; 61, 61a-n, 62) via the communication interface (56) and in response cause the visual indicator unit (90; 90a-90n; 290; 390) to provide a visual indication for guiding a local user (3) at the transit (1; 1a... 1n).
2. The transit indicator device (50; 50a-50n; 250; 350; 450) as defined in claim 1, wherein the transit indicator device (50; 50a-50n; 250; 350; 450) has a first mode in which no visual indication is provided by the visual indicator unit (90; 90a-90n; 290; 390), and a second mode in which the visual indication is provided by the visual indicator unit (90; 90a-90n; 290; 390), and wherein the controller (51) is configured, when receiving the remote instruction (76), to cause the visual indicator unit (90; 90a-90n; 290; 390) to provide the visual indication for guiding the local user (3) by switching from the first mode to the second mode.
3. The transit indicator device (50; 50a-50n; 250; 350; 450) as defined in claim 1, wherein the transit indicator device (50; 50a-50n; 250; 350; 450) has a first mode in which a first visual indication is provided by the visual indicator unit (90; 90a-90n; 290; 390), and a second mode in which a second visual indication is provided by the visual indicator unit (90; 90a-90n; 290; 390), and wherein the controller (51) is configured, when receiving the remote instruction (76), to cause the visual indicator unit (90; 90a-90n; 290; 390) to provide the visual indication for guiding the local user (3) by entering into the first mode or the second mode depending on a content (78) of the remote instruction (76).

4. The transit indicator device (50; 50a-50n; 250; 350; 450) as defined in claim 1, wherein the visual indicator unit (90; 90a-90n; 290; 390) is configured to provide the visual indication for guiding the local user (3) by generating light of a certain color, wherein the certain color is blue or white.

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5. The transit indicator device (50; 50a-50n; 250; 350; 450) as defined in any preceding claim, wherein the visual indicator unit (90; 290; 390) comprises one or more of the following:

10 a multi-color LED indicator (92) being adapted to provide the visual indication for guiding the local user (3) by generating light of a certain color among a plurality of available colors;

15 a set of LED indicators (94), each LED indicator being capable of indicating a respective color, and at least one of the LED indicators being adapted to provide the visual indication for guiding the local user (3) by generating light of its respective color; and

a display screen (96) being adapted to provide the visual indication for guiding the local user (3) by rendering graphical information on the display screen (94).

20 6. The transit indicator device (450) as defined in any preceding claim, comprising a housing (454) adapted for mounting onto a transit element (410) of said transit (400).

25 7. The transit indicator device (250; 350) as defined in any of claims 1-5, wherein the transit indicator device (250; 350) is of the same general shape as one type of transit element (20) for said transit (1; 1a-1n), or of a component (28) of said one type of transit element (20).

30 8. The transit indicator device (250; 350) as defined in claim 7, wherein said one type of transit element is a compressible module (20) and wherein the transit indicator device (250; 350) has a housing (254; 354) of the same general shape as the compressible module (20), the transit indicator device (254; 354) being adapted to be mounted instead of the compressible module (20) in the transit (1; 1a).

35 9. The transit indicator device (250; 350) as defined in claim 7, wherein said one type of transit element is a compressible module (20) and wherein the transit

indicator device (250; 350) has a housing (254; 354) of the same general shape as a core (28) of the compressible module (20), the transit indicator device (254; 354) being adapted to be mounted instead of the core (28) of the compressible module (20) in the transit (1; 1a).

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10. The transit indicator device (250; 350) as defined in any preceding claim, wherein the transit element(s) (10, 20, 30, 40, 42; 400) of the transit (1; 1a... 1n; 400) is/are one or more of the following:

- a frame (10);
- 10 a compressible module (20);
- a stayplate (30);
- a compression unit (wedge) (40);
- a wedge clip (42); and
- 15 a combined frame and compressible module (400).

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11. The transit indicator device (50; 50a-50n; 250; 350; 450) as defined in any preceding claim and having a transit identity (54), wherein the controller (51) is configured, when receiving the remote instruction (76), to check whether the transit identity (54; T_ID1, T_ID2, T_IDn) of the transit indicator device is included in addressing information (77a, 77b, 77n) in the received remote instruction (76), and, if so, cause the visual indicator unit (90) to provide the visual indication for guiding the local user (3).

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12. The transit indicator device (50; 50a-50n; 250; 350; 450) as defined in any of claims 1-10 and having a transit identity (T_ID1, T_ID2, T_IDn), wherein the controller (51) is configured, when receiving the remote instruction (76), to check whether a broadcast flag (BC_Flag) is set in the received remote instruction (76), and, if so, cause the visual indicator unit (90) to provide the visual indication for guiding the local user (3).

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13. A user guidance system (2) for cable, pipe or wire transits (1; 1a... 1n; 400) of a type which has one or more transit elements (10, 20, 30, 40; 42; 400) to form a sealed installation of one or more cables (2), pipes or wires, the user guidance system (2) comprising:

- 30 a communication network (60; 60a-c; 61, 61a-n, 62);

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a computer resource (70) being connectable to the communication network (60; 60a-c; 61, 61a-n, 62); and

a plurality of transit indicator devices (50; 50a-50n; 250; 350; 450) as defined in any of claims 1-12, each being connectable to the communication network (60; 60a-c; 61, 61a-n, 62) and each being located at or within a respective transit (1a-1n),

wherein the computer resource (70) is configured to:

receive a command (74) from an authorized user (4); and

in response send a remote instruction (76) to one or more of the plurality of transit indicator devices (50; 50a-50n; 250; 350; 450) over the communication network (60; 60a-c; 61, 61a-n, 62), thereby causing said one or more transit indicator devices (50; 50a-50n; 250; 350; 450) to provide a visual indication for guiding a local user (3) at the respective transit(s) (1a-1n) where said one or more transit indicator devices (50; 50a-50n; 250; 350; 450) is/are located.

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14. The user guidance system (2) as defined in claim 13, wherein the remote instruction (76) is adapted to cause selective visual indication by a certain transit indicator device (50a) at a certain transit (1a).

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15. The user guidance system (2) as defined in claim 14, wherein the selective visual indication is provided only by the certain transit indicator device (50a) at the certain transit (1a) and not by any other transit indicator devices (50b-50n) at any other transits (1b-1n).

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16. The user guidance system (2) as defined in claim 14 or 15, wherein the selective visual indication serves to facilitate for the local user (3) to locate the correct certain transit (1a) for installation, service, repair, maintenance, upgrade or inspection.

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17. The user guidance system (2) as defined in claim 13, wherein the remote instruction (76) is adapted to cause selective visual indication by a subset of transit indicator devices (50a-50b) at a subset of the transits (1a-1b).

18. The user guidance system (2) as defined in claim 17, wherein the selective visual indication by the subset of transit indicator devices (50a-50b) serves to facilitate

for the local user (3) to know how to route cables (2), pipes or wires between transits in the subset of the transits (1a-1b).

19. The user guidance system (2) as defined in claim 13, wherein the remote
5 instruction (76) is adapted to cause visual indication by all transit indicator device (50a-50n) at all transits (1a-1n).

20. The user guidance system (2) as defined in claim 13, wherein the remote
instruction (76) is addressable to individual transit indicator units (50a, 50b, 50n)
10 located at or within transits (1a, 1b) at a same site (6) as well as located at or within transits (1n) at another site (6') than said same site (6).

21. The user guidance system (2) as defined in claim 13 or 20, wherein the
remote instruction (76) comprises addressing information (77a, 77b, 77n) for indicating
15 a variable number of individual transit indicator units (50a, 50b, 50n) that the remote instruction (76) is intended for.

22. The user guidance system (2) as defined in claim 21, wherein the
addressing information (77a, 77b, 77n) in the remote instruction (76) comprises a
20 respective transit identity (T_ID1, T_ID2, T_IDn) for each individual transit indicator unit (50a, 50b, 50n) that the remote instruction (76) is intended for.

23. The user guidance system (2) as defined in claim 13, wherein the remote
instruction (76) comprises a broadcast flag (BC_Flag) for indicating that the remote
25 instruction (76) is intended for all receiving transit indicator devices (50a-50n).

24. The user guidance system (2) as defined in any of claims 13-23,
wherein the computer resource (70) is configured to store data representing
current visual indications of the transit indicator devices (50a-50n) of the user guidance
30 system in a data structure (75) in a memory (72), and

wherein the computer resource (70) is configured, as the computer resource
(70) receives from the authorized user (4), or from another authorized user, a command
(74) intended for one or more of the transit indicator devices (50a-50n), to update the
data structure (75) so as to reflect a change in visual indication provided by said one or
35 more transit indicator devices (50a-50n) as defined by said command (74).

25. The user guidance system (2) as defined in claim 24, wherein the computer resource (70) is further configured to:

- 5 receive a query from a computer user (5) of the user guidance system, the query pertaining to one or more of the transit indicator devices (50a-50n) of the user guidance system;
- retrieve data representing the current visual indications of the queried one or more transit indicator devices (50a-50n) from the data structure (75) in the memory (72); and
- 10 respond to the computer user (5) with response information, wherein the response information comprises all or part of the retrieved data, or is derived from all or part of the retrieved data.

26. A method (500) of guiding a local user (3) at a cable, pipe or wire transit (1; 1a... 1n; 400) having one or more transit elements (10, 20, 30, 40; 42; 400) to form a sealed installation of one or more cables (2), pipes or wires, the method (500) comprising:

- a computer resource (70) receiving (510) a command (74) from an authorized user (4);
- 20 the computer resource (70) in response sending (520) a remote instruction (76) over a communication network (60; 60a-c; 61, 61a-n, 62) to a transit indicator device (50; 50a-50n; 250; 350; 450) located at or within the transit (1; 1a... 1n; 400); and
- the transit indicator device (50; 50a-50n; 250; 350; 450) providing (530) a visual indication for guiding the local user (3) at the transit (1; 1a... 1n; 400).
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