

Réseau BOB-TEE91

Documentation technique

Version du 06/12/2023

Table des matières

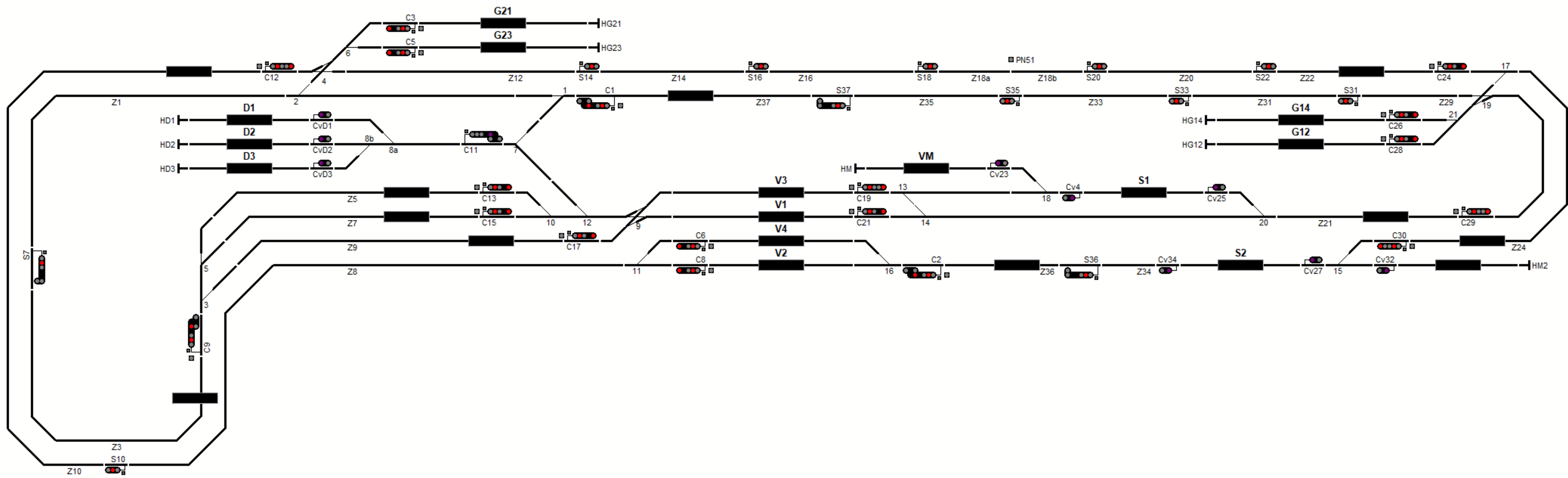
Les sections qui composent la documentation technique sont :

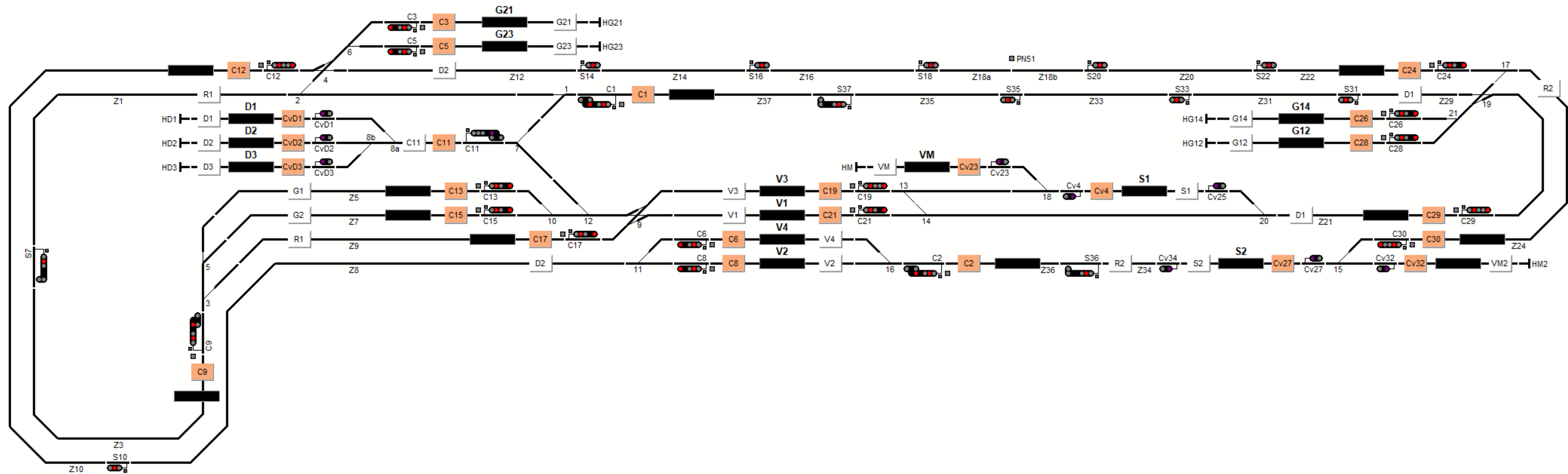
- 1 – Dessin du TCO
- 2 – Coupures de rails
- 3 – Signaux implantés sur le réseau
- 4 – Plaquettes de raccordements
- 5 – Boitier électronique (à venir)
- 6 - Câblage des signaux
- 7 - Câblage des moteurs
- 8 - Câblage des zones électriques
- 9 - Câblage de la commande du PN

Numérotation des schémas

- Les schémas des sections 1 à 4 sont numérotés 0-XX-YY
- Les schémas du boitier électronique 1-XX-YY
- Les schémas de câblage des signaux sont numérotés 2-XX-YY (XX : numéro de la carte 64 sorties)
- Les schémas de câblage des moteurs sont numérotés 3-XX-YY (XX : numéro de la carte 16 moteurs lents)
- Les schémas de câblage des zones sont numérotés 4-XX-YY (XX : numéro de la carte 12 zones – 24 détections))

TCO

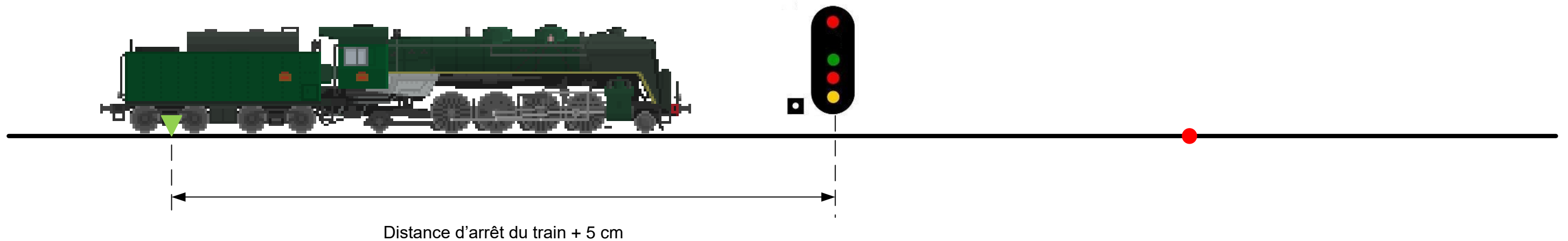




COUPURES DES RAILS

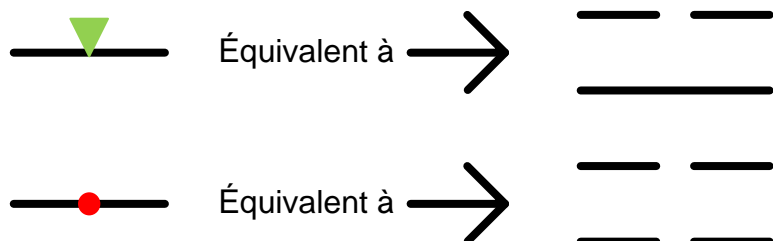
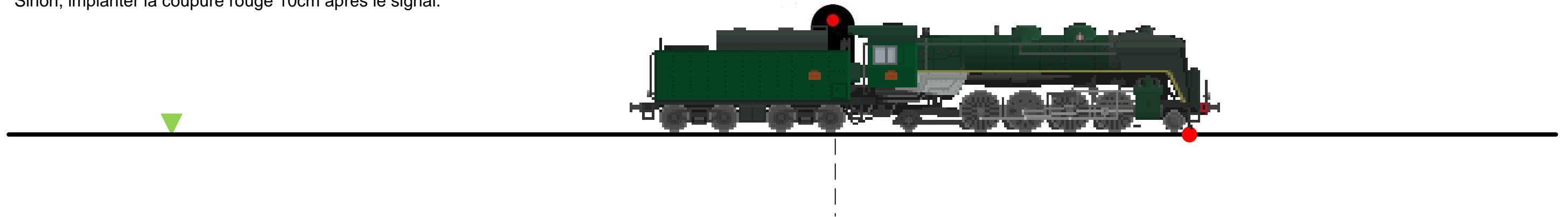
Signal fermé

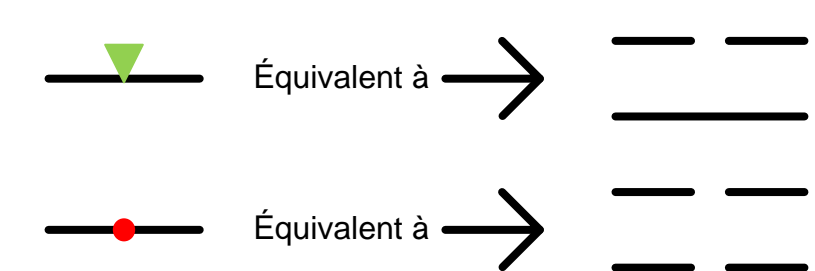
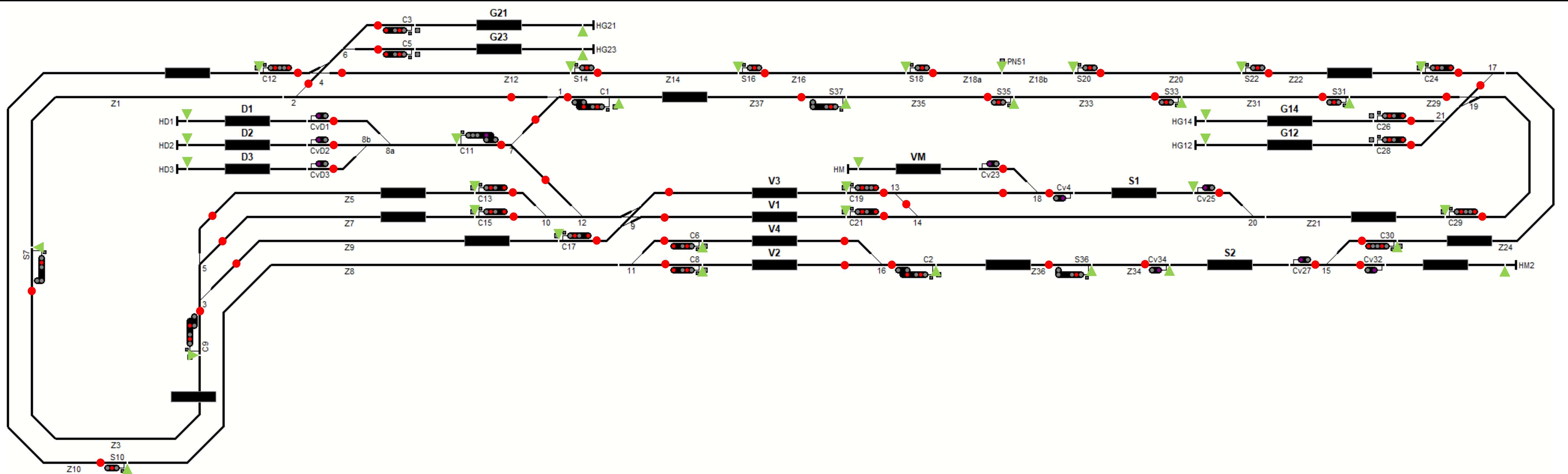
Le train va arriver à faible vitesse à l'approche de la zone d'arrêt. Lorsqu'il franchit la coupure verte, il s'arrête sur une distance définie dans les paramètres du train ; un arrêt sur 10 à 15 cm est assez réaliste. Le signal doit donc être implanté à 20/25 cm de la coupure verte.

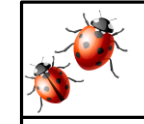
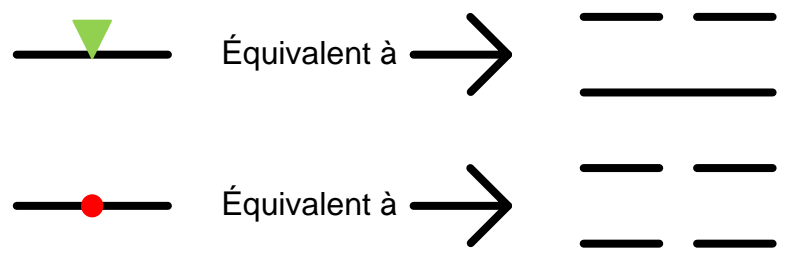
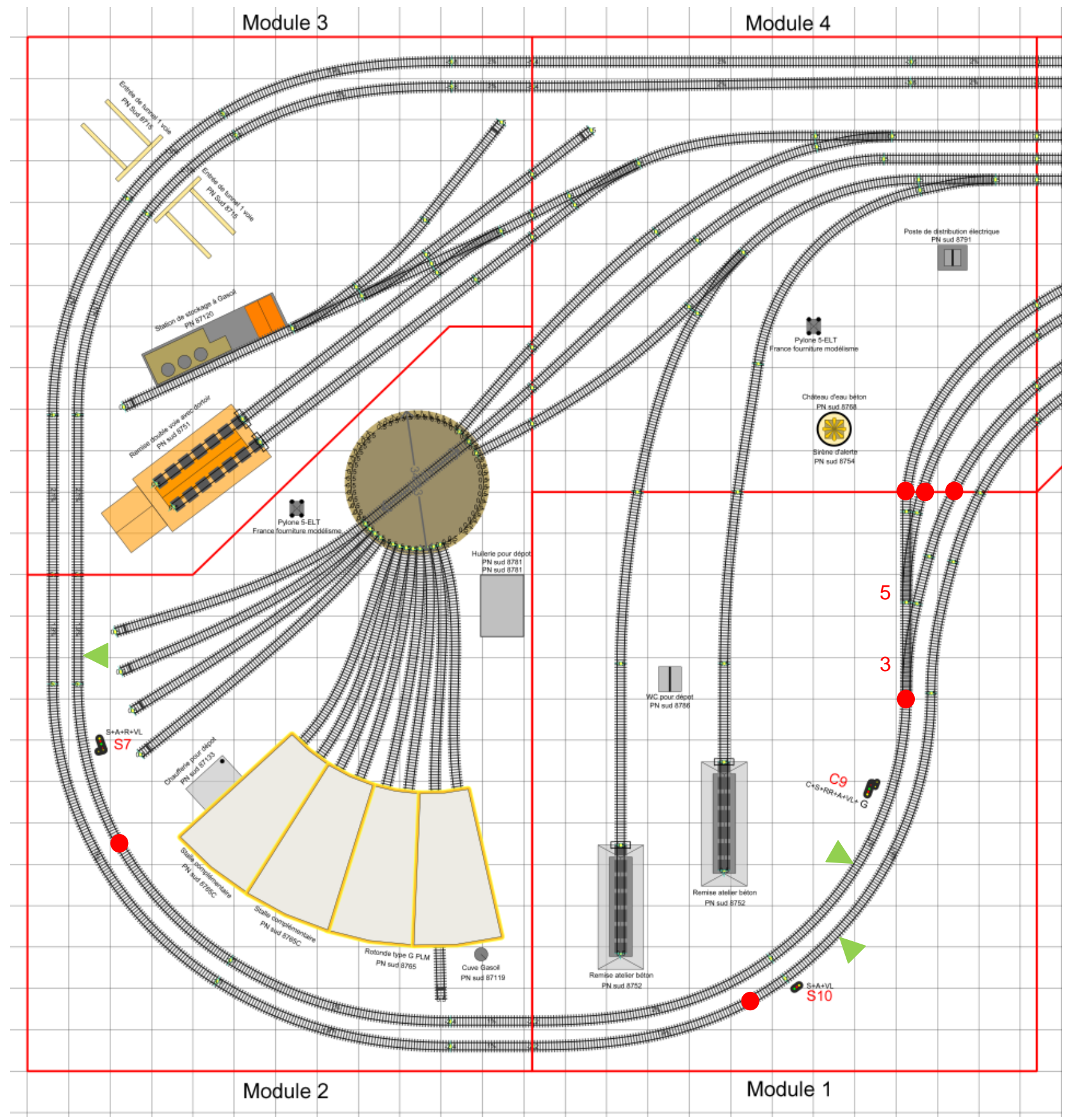


Signal ouvert

Le signal se ferme lorsque le train franchit la coupure rouge. Lorsque le conducteur est placé à l'arrière de la locomotive (cas de locomotives à vapeur), il faut que le signal se ferme lorsque le conducteur ne voit plus le signal. La coupure rouge doit être implantée à une distance correspondant à la plus grande locomotive vapeur (hors tender). Cette règle est à respecter si des locomotives à vapeur circulent sur le réseau et si cette implantation est possible (il ne faut pas non plus être plus réaliste que le roi). Sinon, implanter la coupure rouge 10cm après le signal.





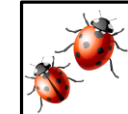
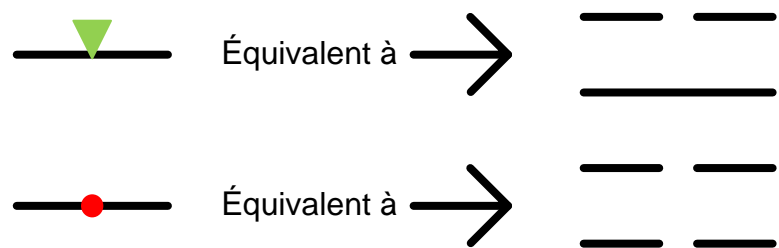
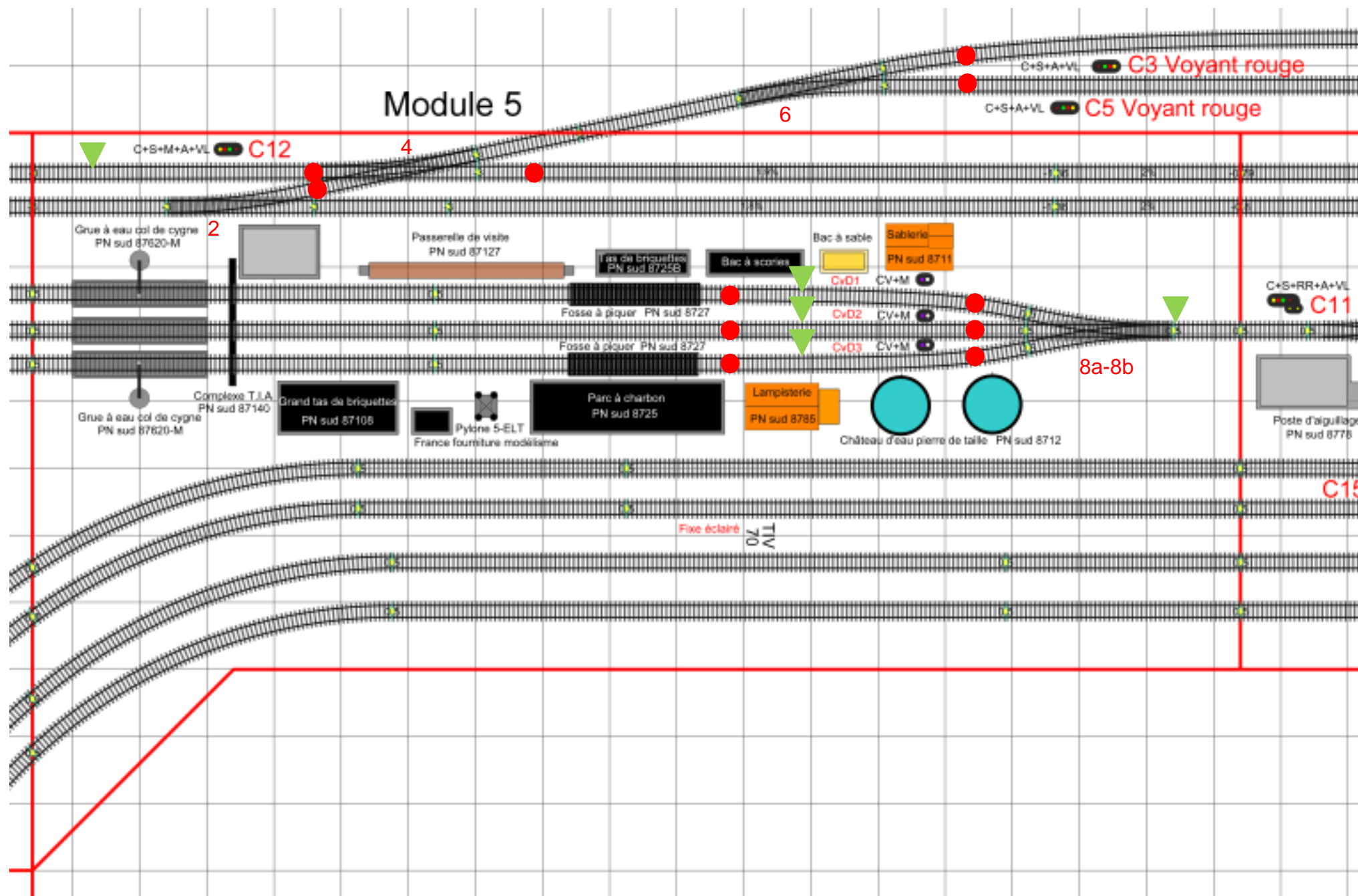


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Coupures des rails – Modules 1-2-3-4

04/10/2022

Feuille : 0-2-02



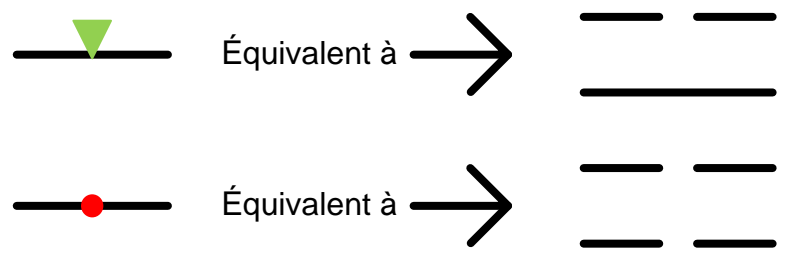
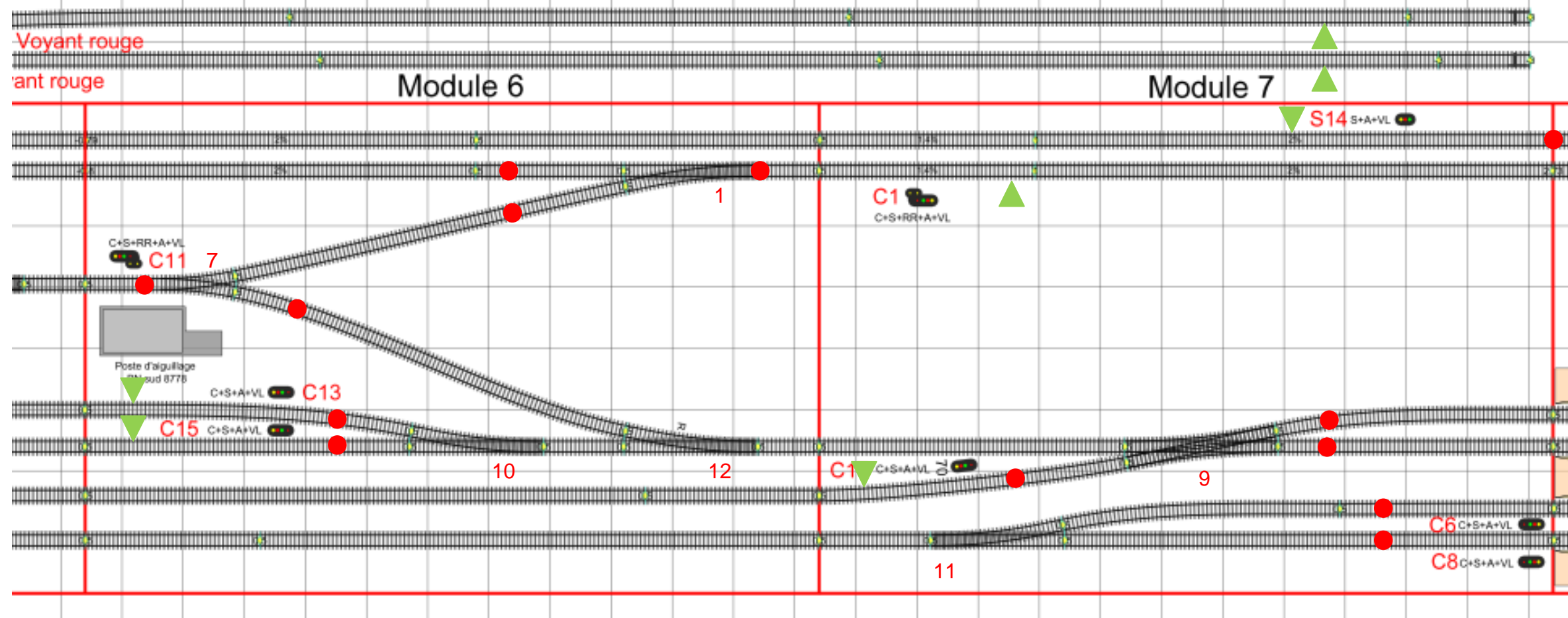
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Coupages des rails – Module 5

04/10/2022

Feuille : 0-2-03

Gare cachée sortie en V1



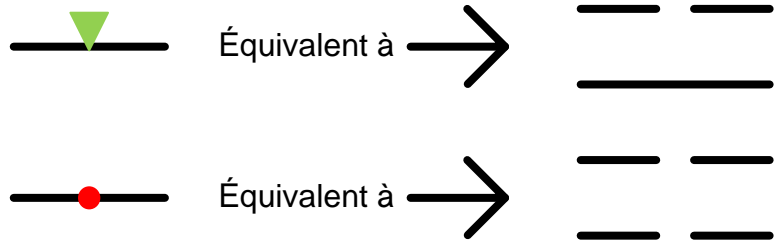
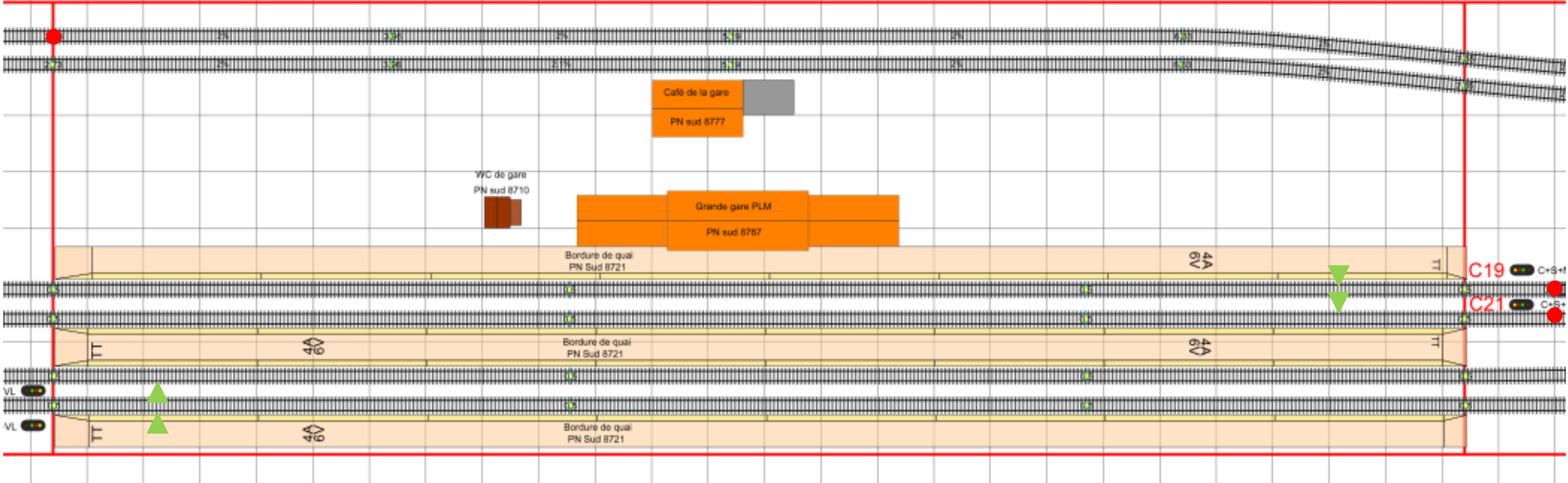
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Coupages des rails – Modules 6 - 7

04/10/2022

Feuille : 0-2-04

Module 8

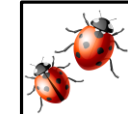
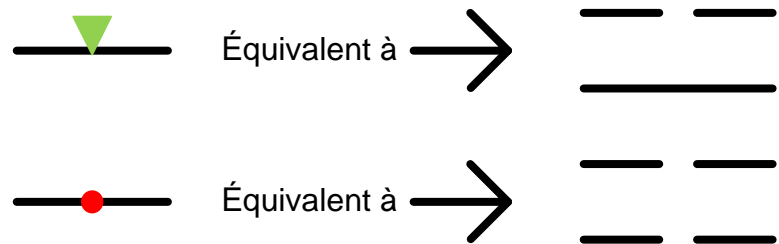
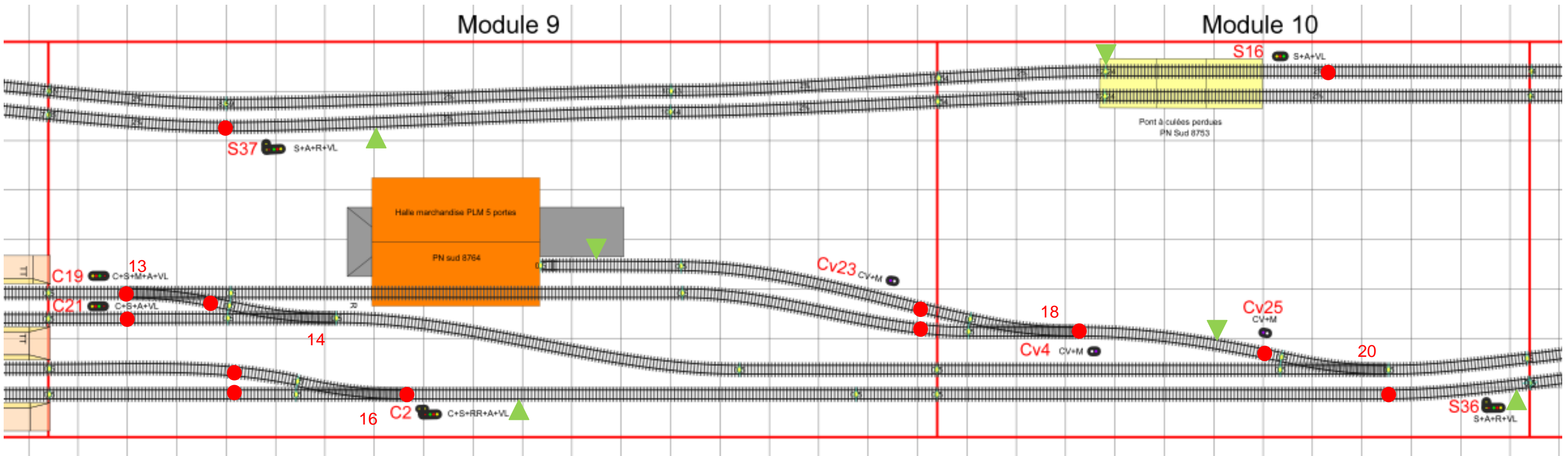


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Coupages des rails – Module 8

04/10/2022

Feuille : 0-2-05

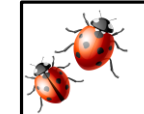
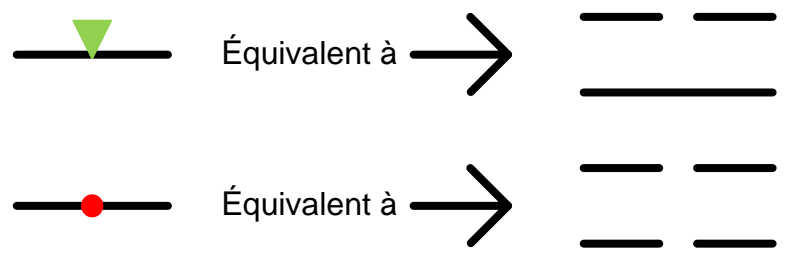
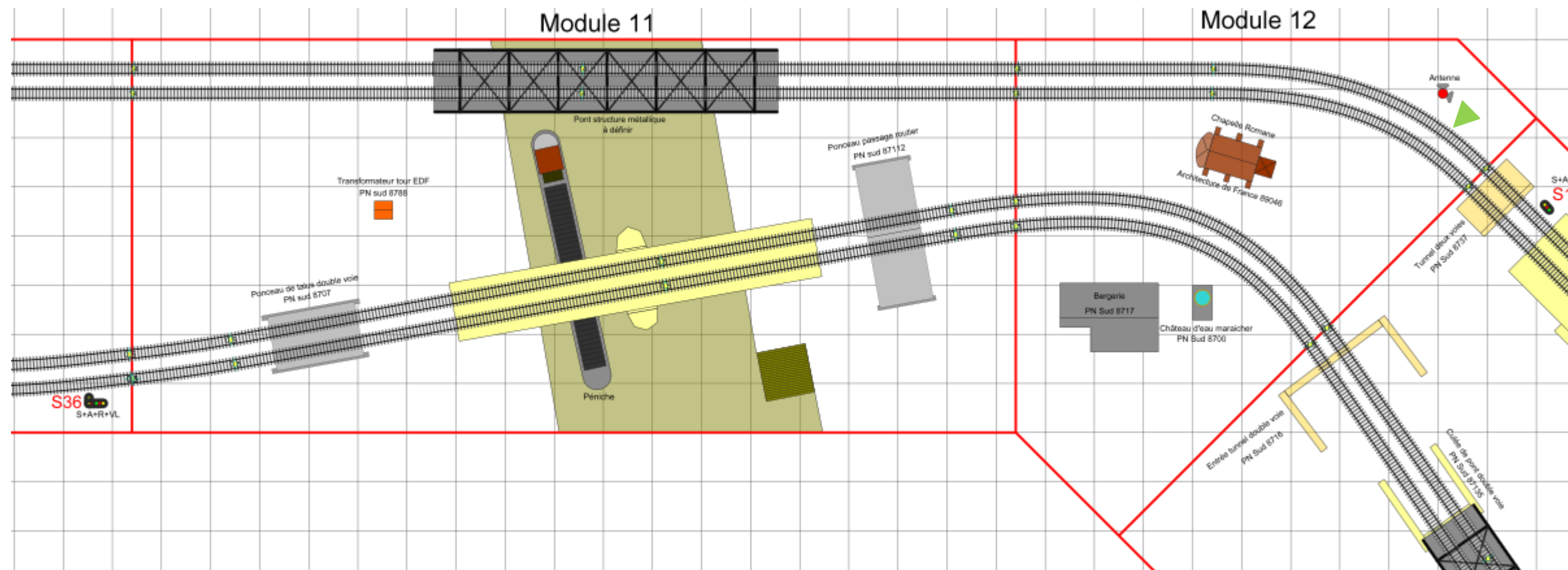


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Coupages des rails – Modules 9-10

04/10/2022

Feuille : 0-2-06

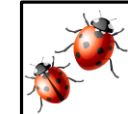
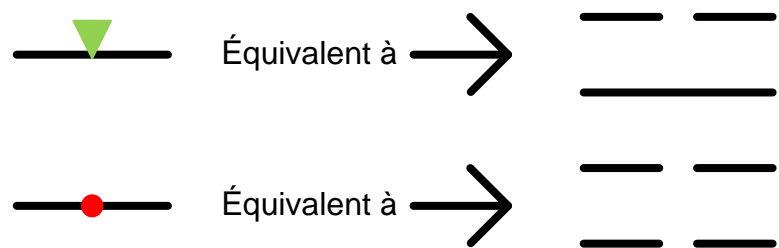
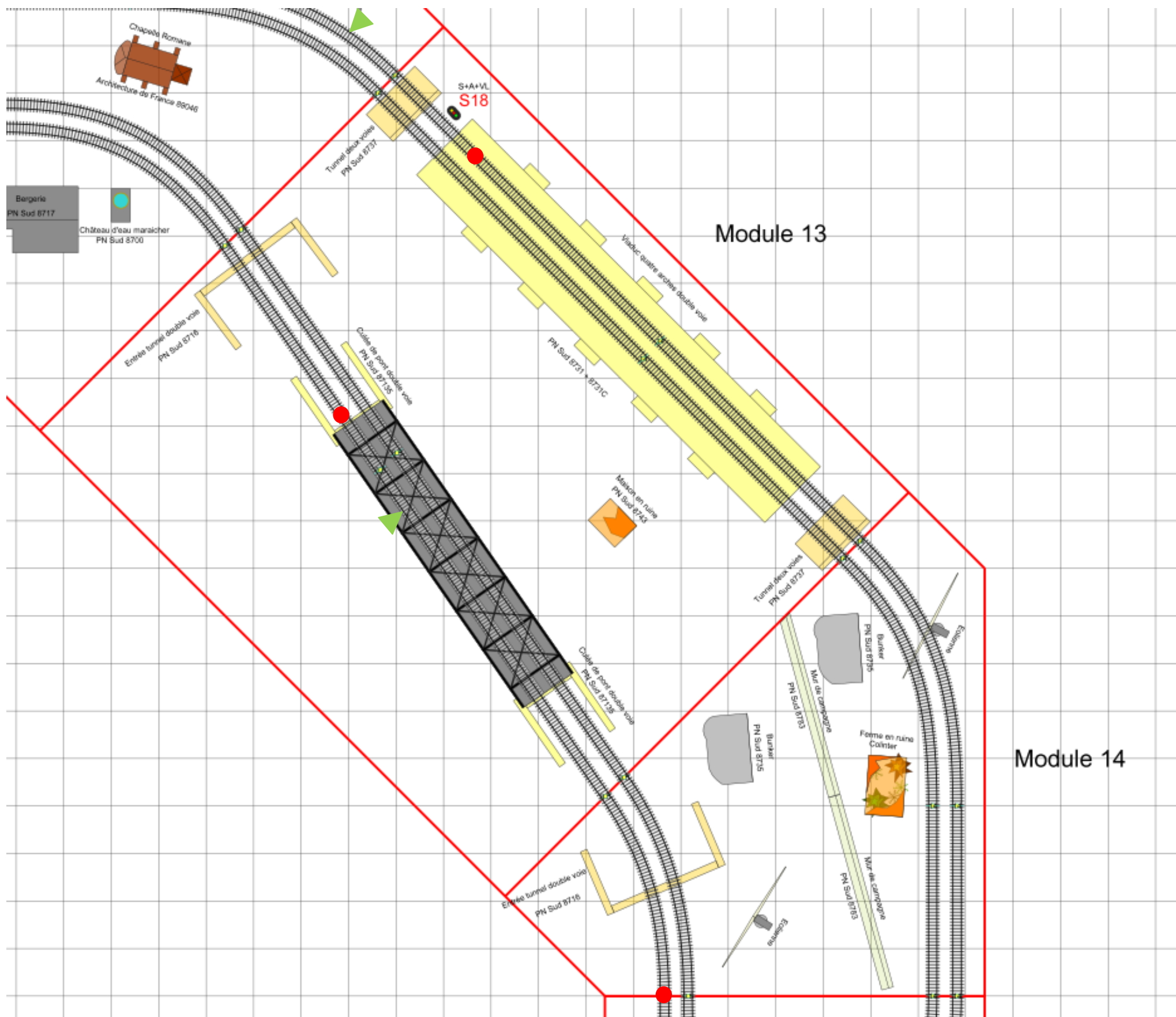


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Coupures des rails – Modules 11-12

04/10/2022

Feuille : 0-2-07

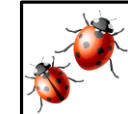
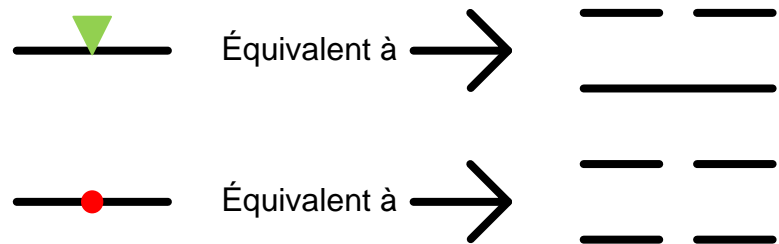
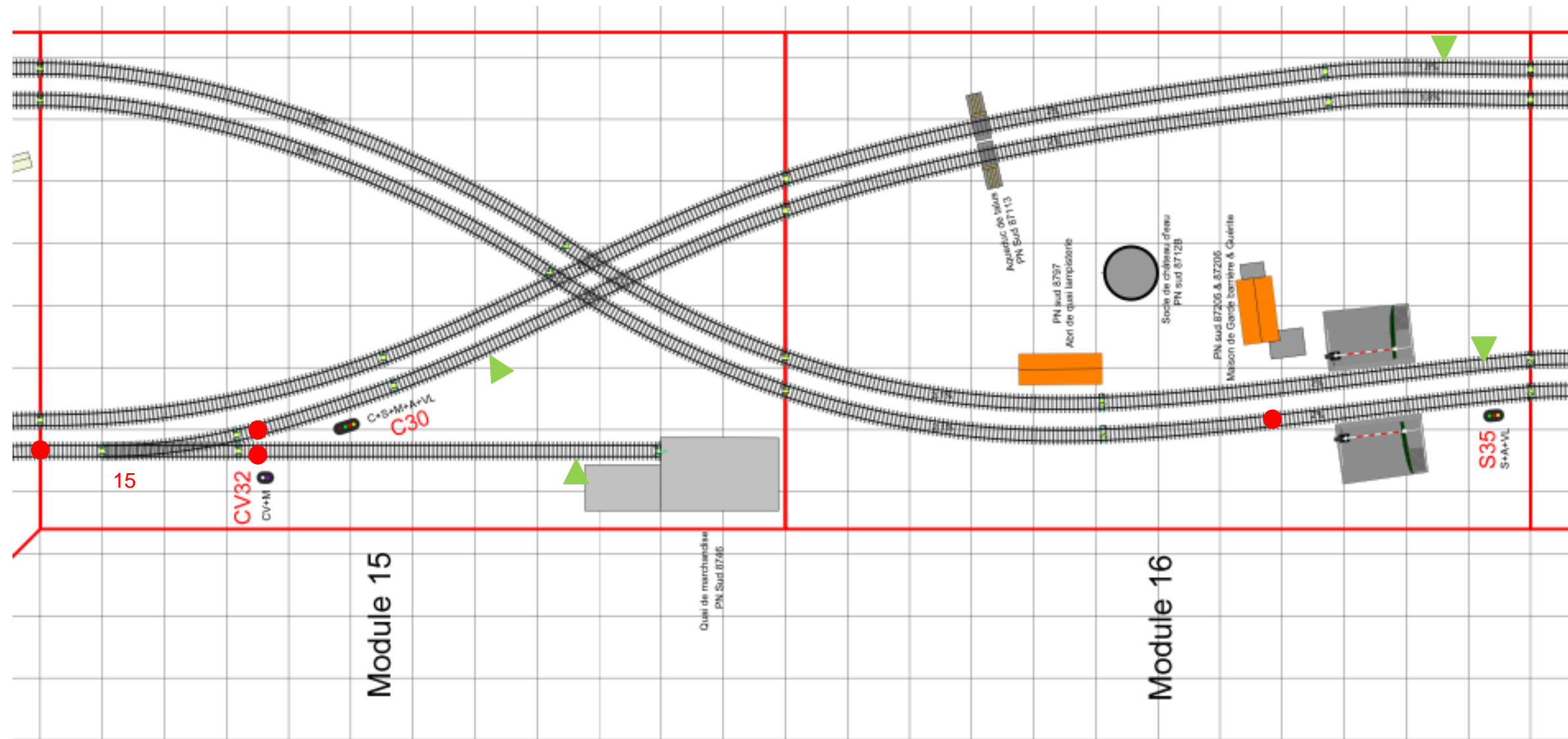


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Coupures des rails – Modules 13-14

04/10/2022

Feuille : 0-2-08

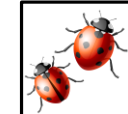
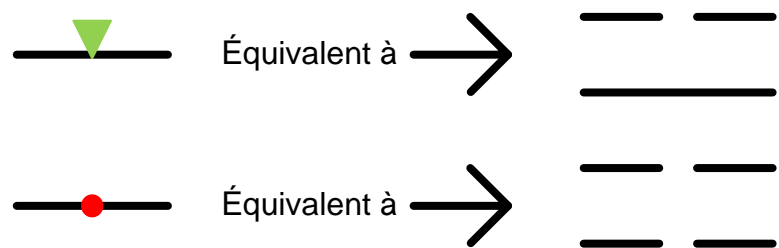
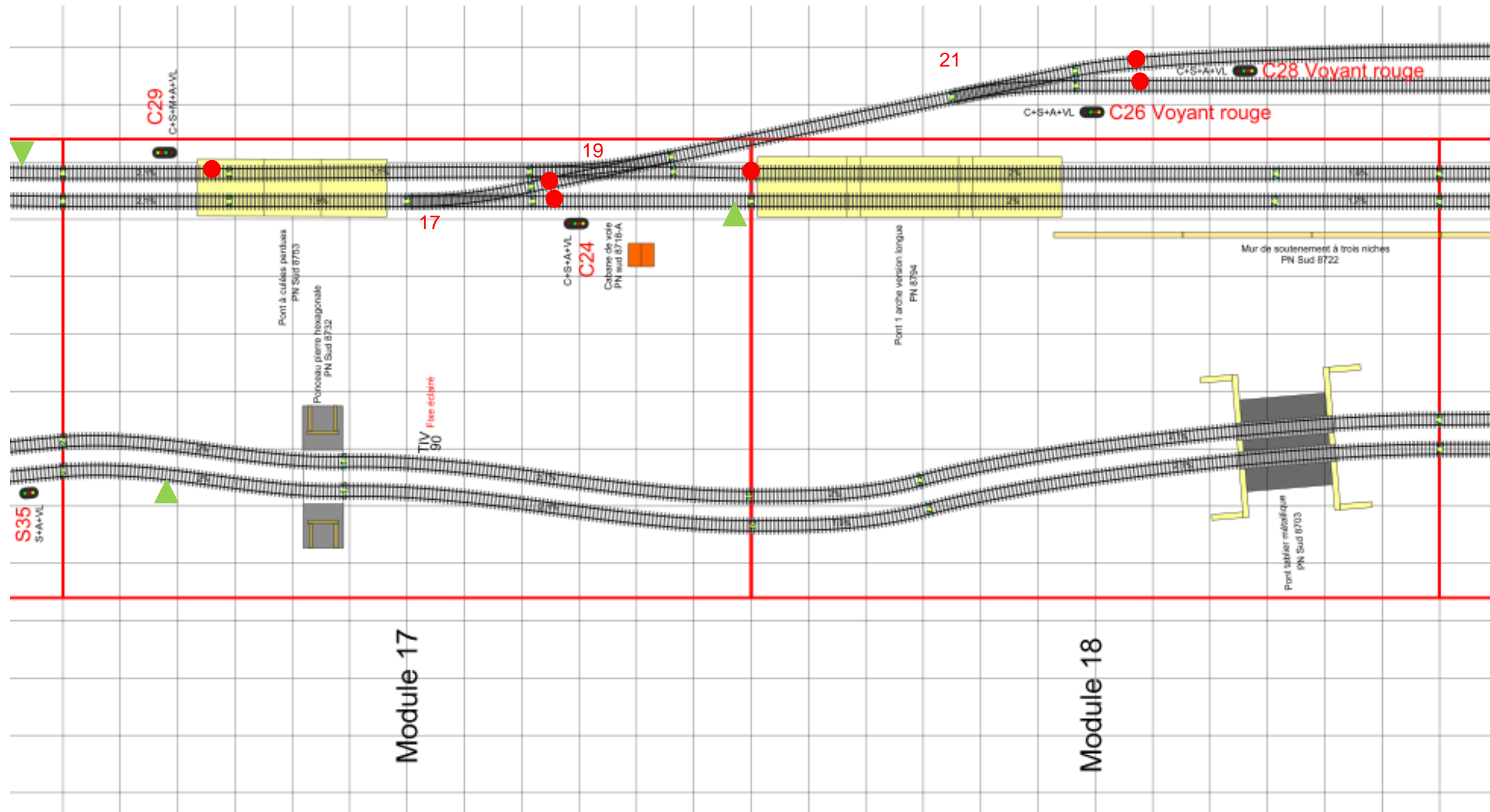


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Coupages des rails – Modules 15-16

04/10/2022

Feuille : 0-2-09

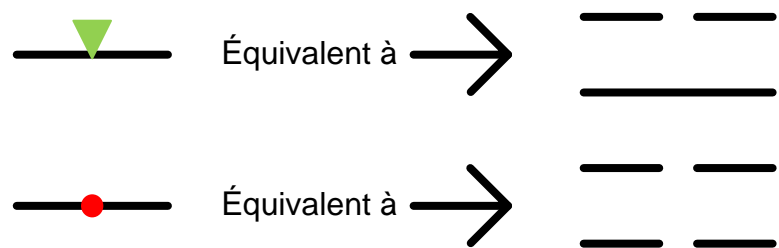
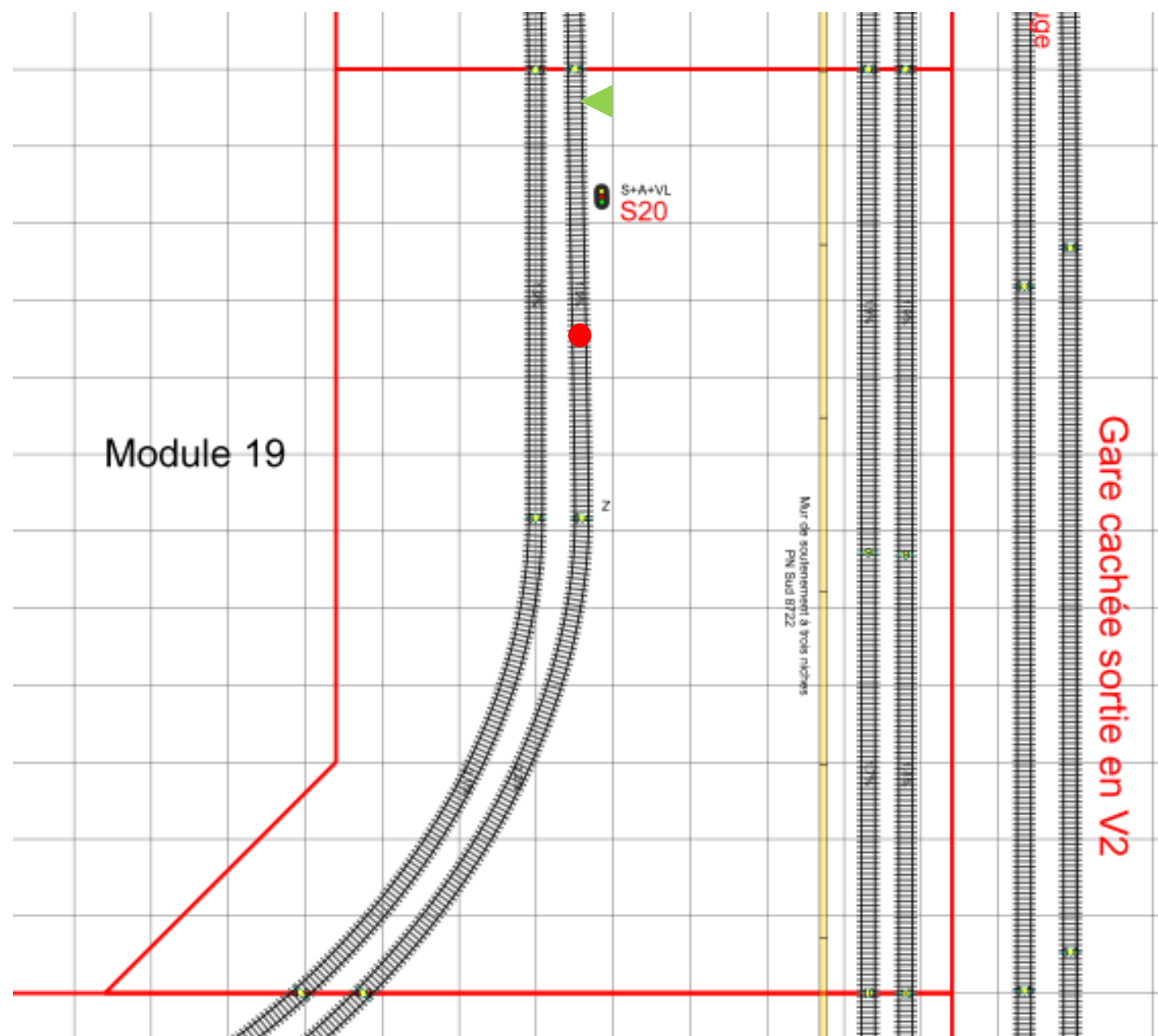


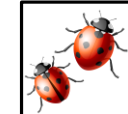
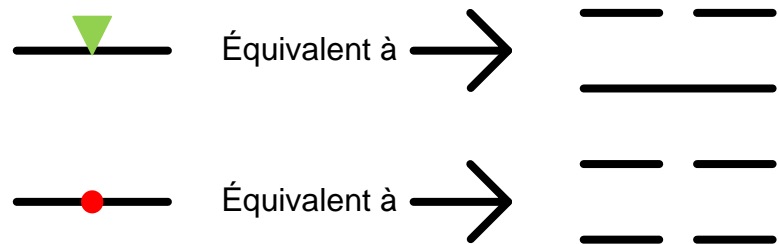
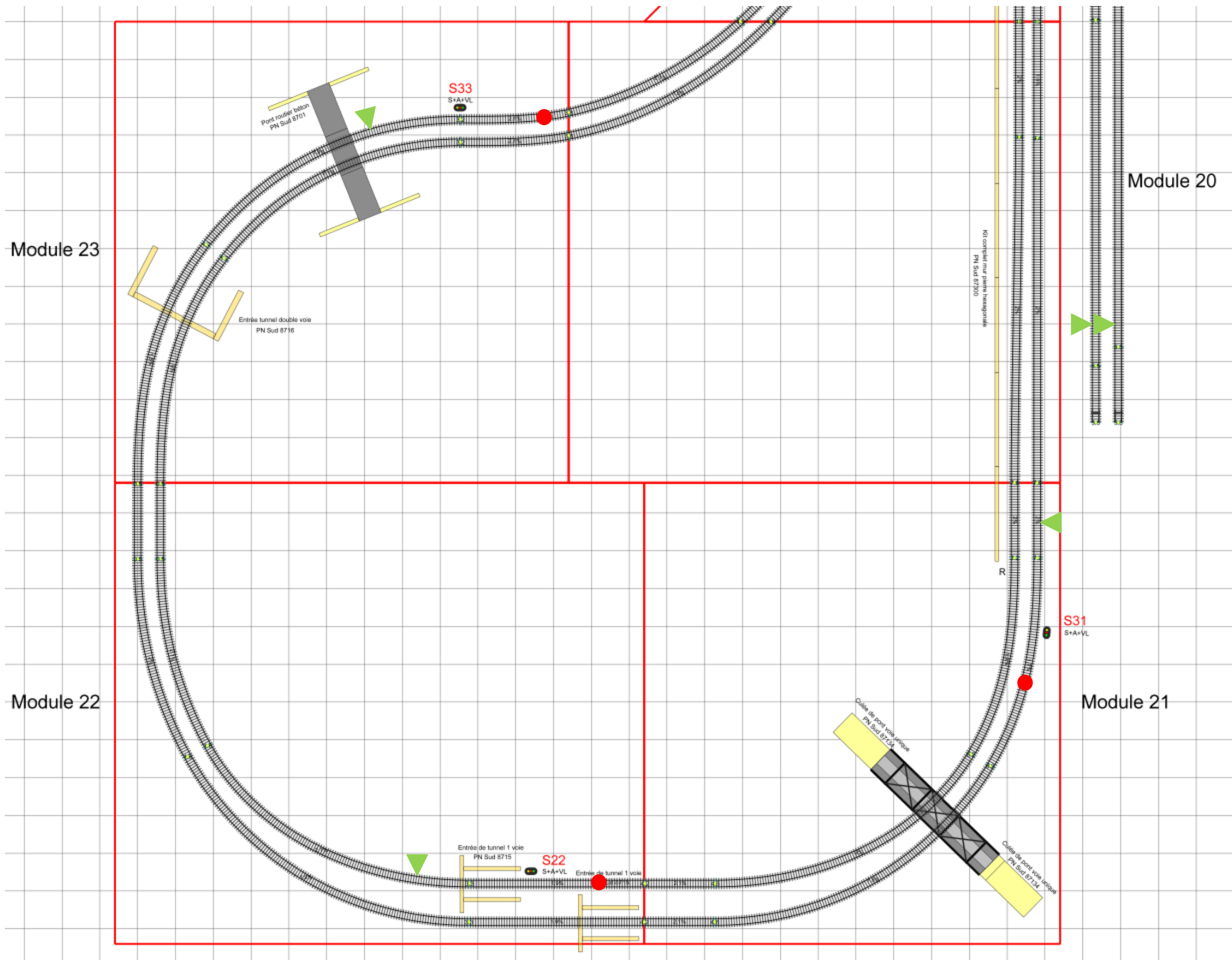
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Coupures des rails – Modules 17-18

04/10/2022

Feuille : 0-2-10





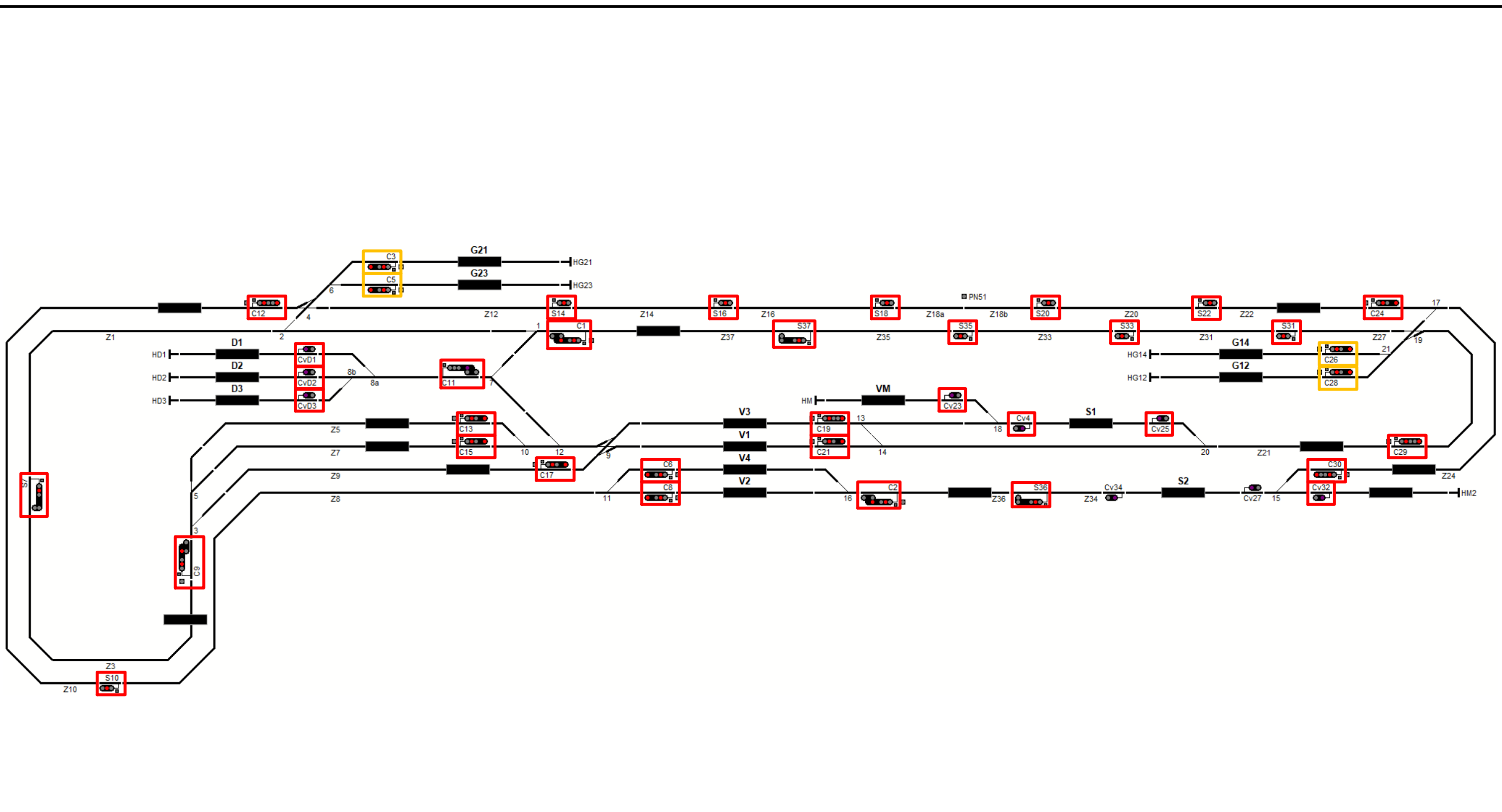
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Coupages des rails – Modules 20-21-22-23

04/10/2022

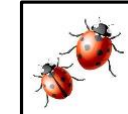
Feuille : 0-2-12

Signaux présents sur le réseau



Signal lumineux

Voyant lumineux



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Signaux présents sur le réseau

04/10/2022

Feuille : 0-3-01

Plaquettes de raccordement

Module 01 : plaquette PR-M1 (schéma 0-04-01)
Module 02 : plaquette PR-M2 (schéma 0-04-02)
Module 03 : pas de plaquette de raccordement
Module 04 : pas de plaquette de raccordement
Module 05 : plaquettes PR-M5-1 (schéma 0-04-03) et PR-M5-2 (schéma (0-04-04)
Module 06 : plaquettes PR-M6-1 (schéma 0-04-05) et PR-M6-2 (schéma (0-04-06)
Module 07 : plaquettes PR-M7-1 (schéma 0-04-07) et PR-M7-2 (schéma (0-04-08)
Module 08 : plaquette PR-M8 (schéma 0-04-09)
Module 09 : plaquettes PR-M59-1 (schéma 0-04-10) et PR-M9-2 (schéma (0-04-11)
Module 10 : plaquette PR-M10 (schéma 0-04-12)
Module 11 : pas de plaquette de raccordement
Module 12 : pas de plaquette de raccordement
Module 13 : plaquette PR-M13 (schéma 0-04-13)
Module 14 : pas de plaquette de raccordement
Module 15 : plaquette PR-M15 (schéma 0-04-14)
Module 16 : plaquette PR-M16 (schéma 0-04-15)
Module 17 : plaquette PR-M17 (schéma 0-04-16)
Module 18 : pas de plaquette de raccordement
Module 19 : plaquette PR-M19 (schéma 0-04-17)
Module 20 : pas de plaquette de raccordement
Module 21 : plaquette PR-M21 (schéma 0-04-18)
Module 22 : plaquette PR-M22 (schéma 0-04-19)
Module 23 : plaquette PR-M23 (schéma 0-04-20)
Gare cachée sortie V1 : plaquette PR-GC1 (schéma 0-04-21)
Gare cachée sortie V2 : plaquette PR-GC2 (schéma 0-04-22)

Pour le câblage, il est conseillé de regrouper les schémas par module :
- schéma de coupures des rails du module
- schéma de la ou des plaquettes de raccordement du module
- schémas de câblage indiqués indiqués sur le schéma de la plaquette de raccordement



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Plaquettes de raccordement - Sommaire

04/10/2022

Feuille : 0-04-00

PR-M1

Ligne 2020

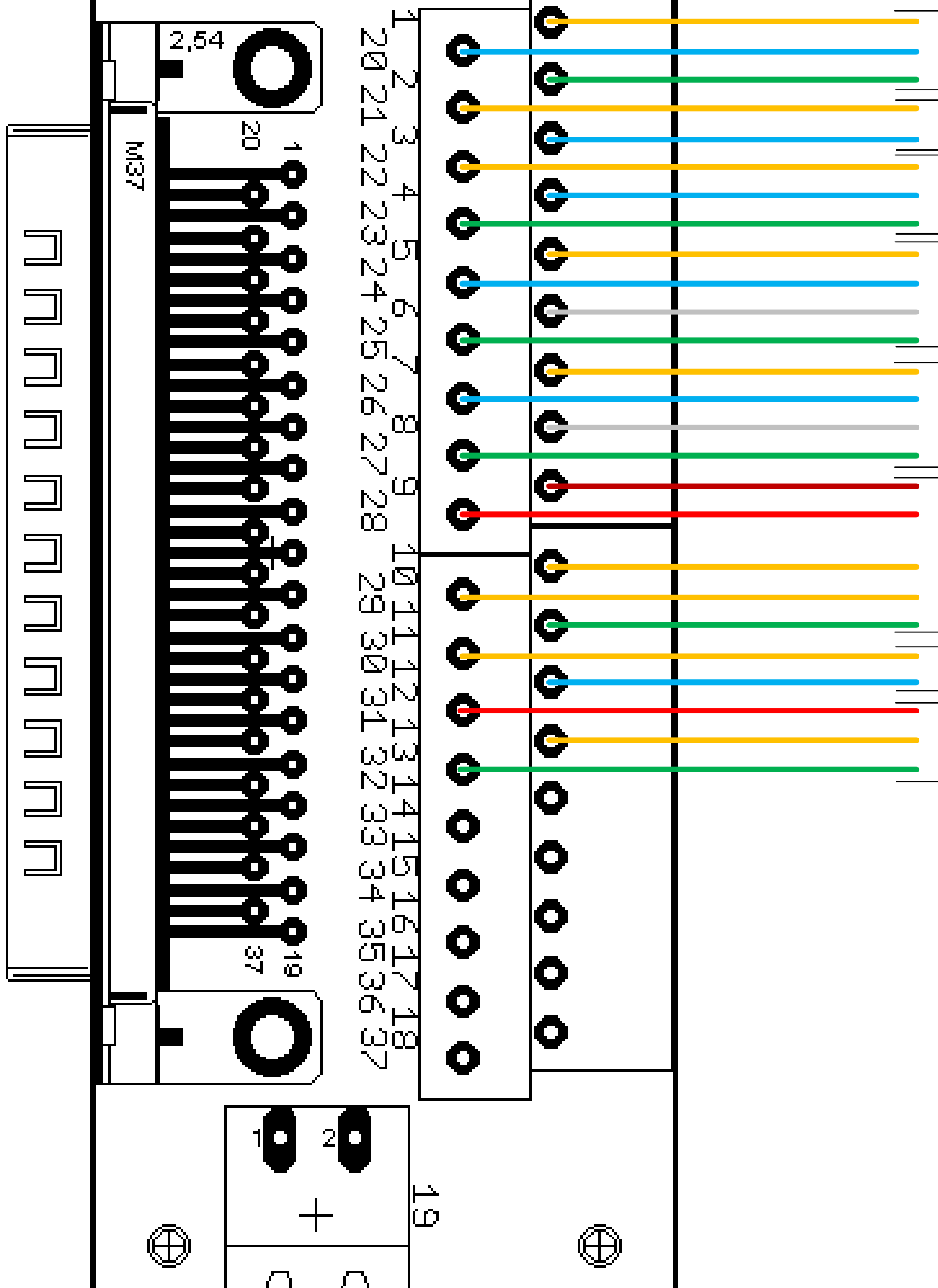


Schéma 4-01-12 : Traction – Signal C9 – Zone 3

Schéma 4-02-03 : Traction – Branchements 3 – 5

Schéma 4-02-07 : Traction – Signal S10 – Zone 8

Traction

Schéma 3-01-03 : Moteur branchement 3

Schéma 3-01-05 : Moteur branchement 5

Moteurs

Schéma 2-01-07 : Signal C9

Schéma 2-03-01 : Tableau G

Schéma 2-02-11 : Signal S10

Signaux



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Plaque de raccordement Module 1 : PR-M1

14/11/2022

Feuille : 0-04-01

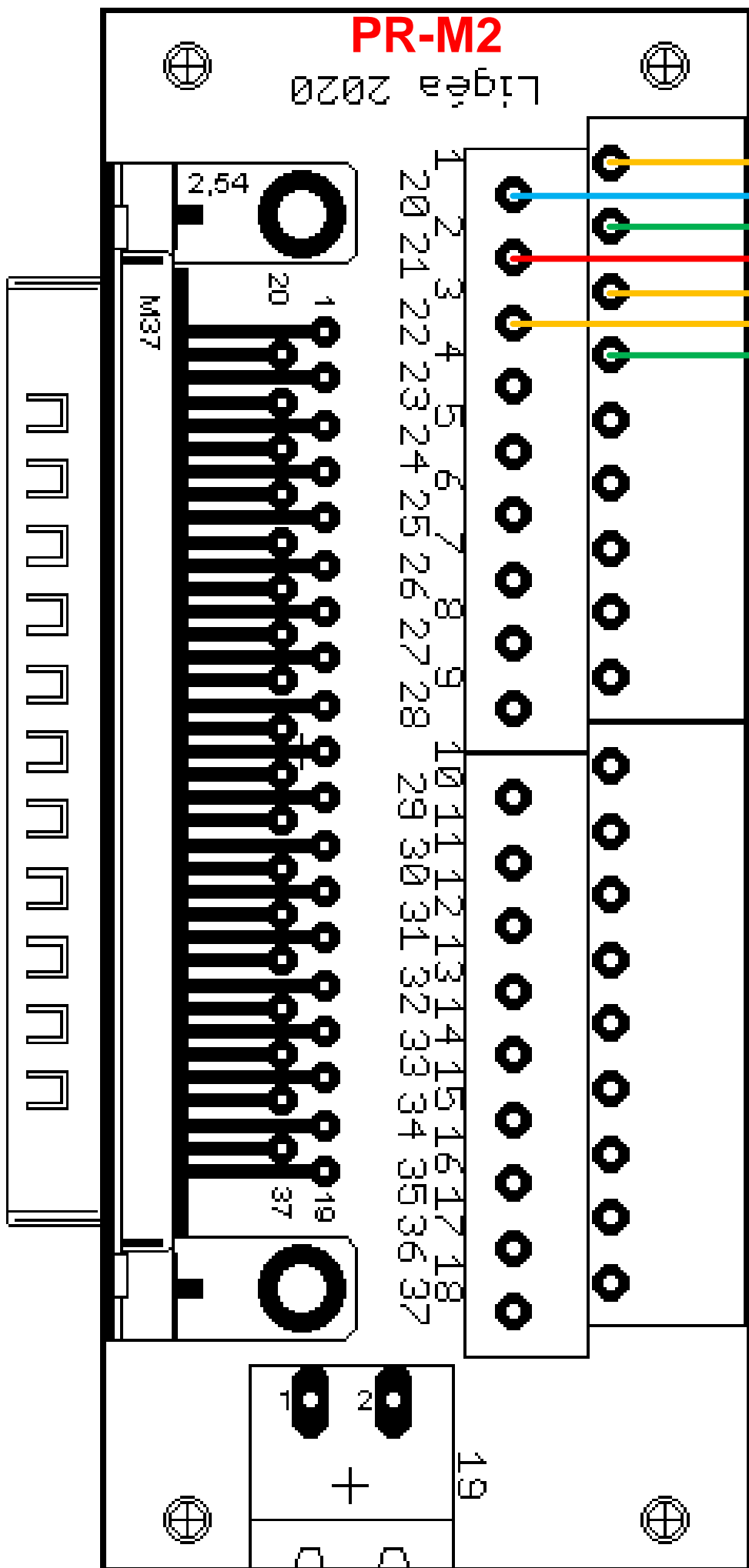
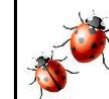


Schéma 4-01-04 : Traction – Signal S7 – Zone 1 – Branchement 2

Traction

Schéma 2-02-10 : Signal S7

Signaux



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Plaque de raccordement Module 2 : PR-M2

20/10/2022

Feuille : 0-04-02

PR-M5-1

Ligne 2020

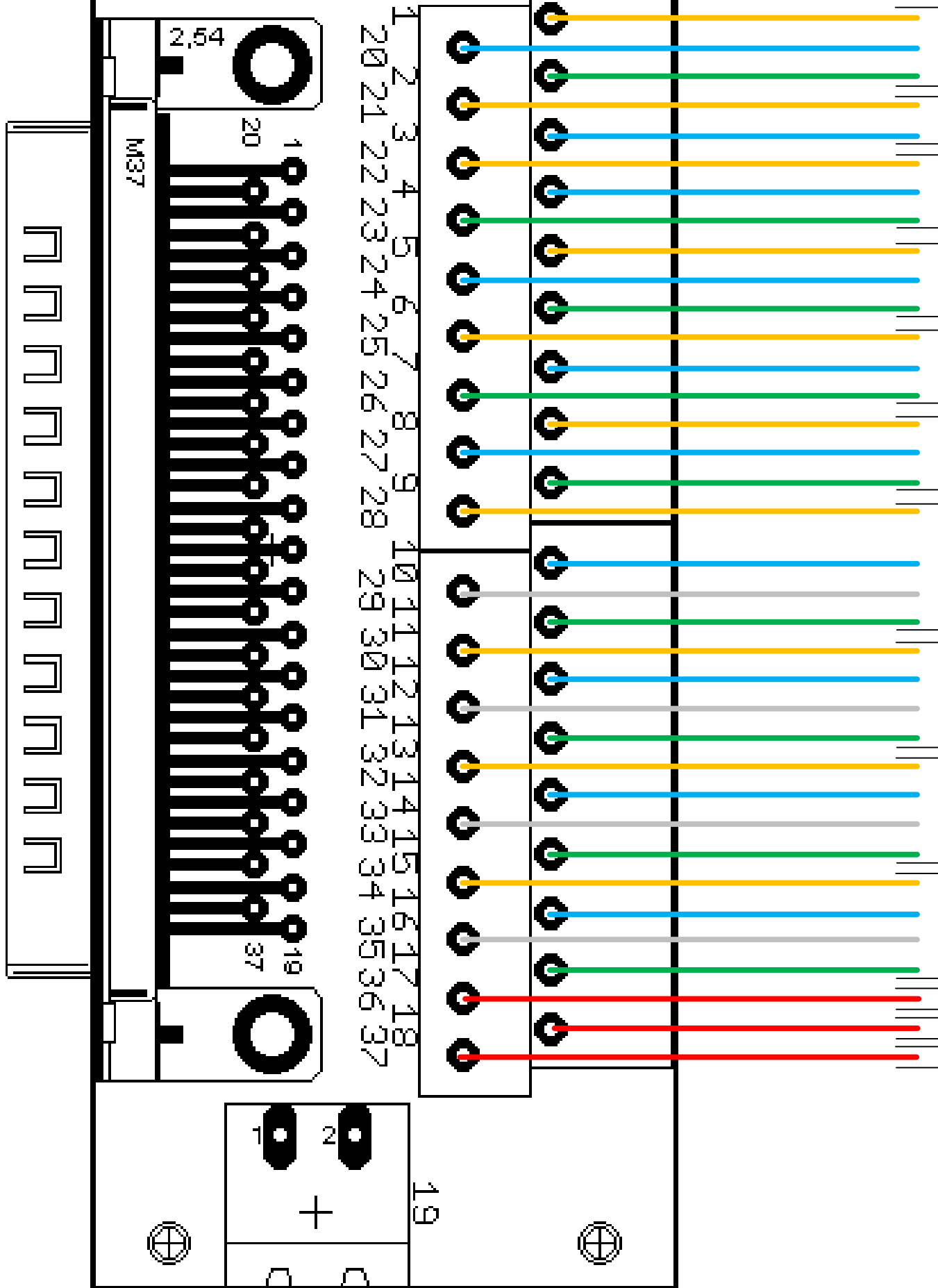


Schéma 4-01-08 : Traction – Signal C12 – Zone 10

Schéma 4-01-05 : Traction – TJD 4 – Branchement 6

Schéma 4-01-09a – Traction – Signal CvD1 – Voie D1

Schéma 4-01-10a – Traction – Signal CvD2 – Voie D2

Schéma 4-01-11a – Traction – Signal CvD3 – Voie D3

Schéma 4-02-01 – Traction – Signal C11 – Branchement triple 8

Traction

Schéma 3-01-04 : Moteur TJD 4

Schéma 3-01-04 : Moteur TJD 4

Schéma 3-01-08 : Moteur branchement triple 8

Schéma 3-01-08 : Moteur branchement triple 8

Moteurs

Schéma 4-01-09b : Commutation voie D1

Schéma 4-01-10b : Commutation voie D2

Schéma 4-01-11b : Commutation voie D3

Commutation voie dépôt



Ladybird – Réseau BOB-TEE 91

Plaque de raccordement Module 5 : PR-M5-1

17/01/2023

Feuille : 0-04-03

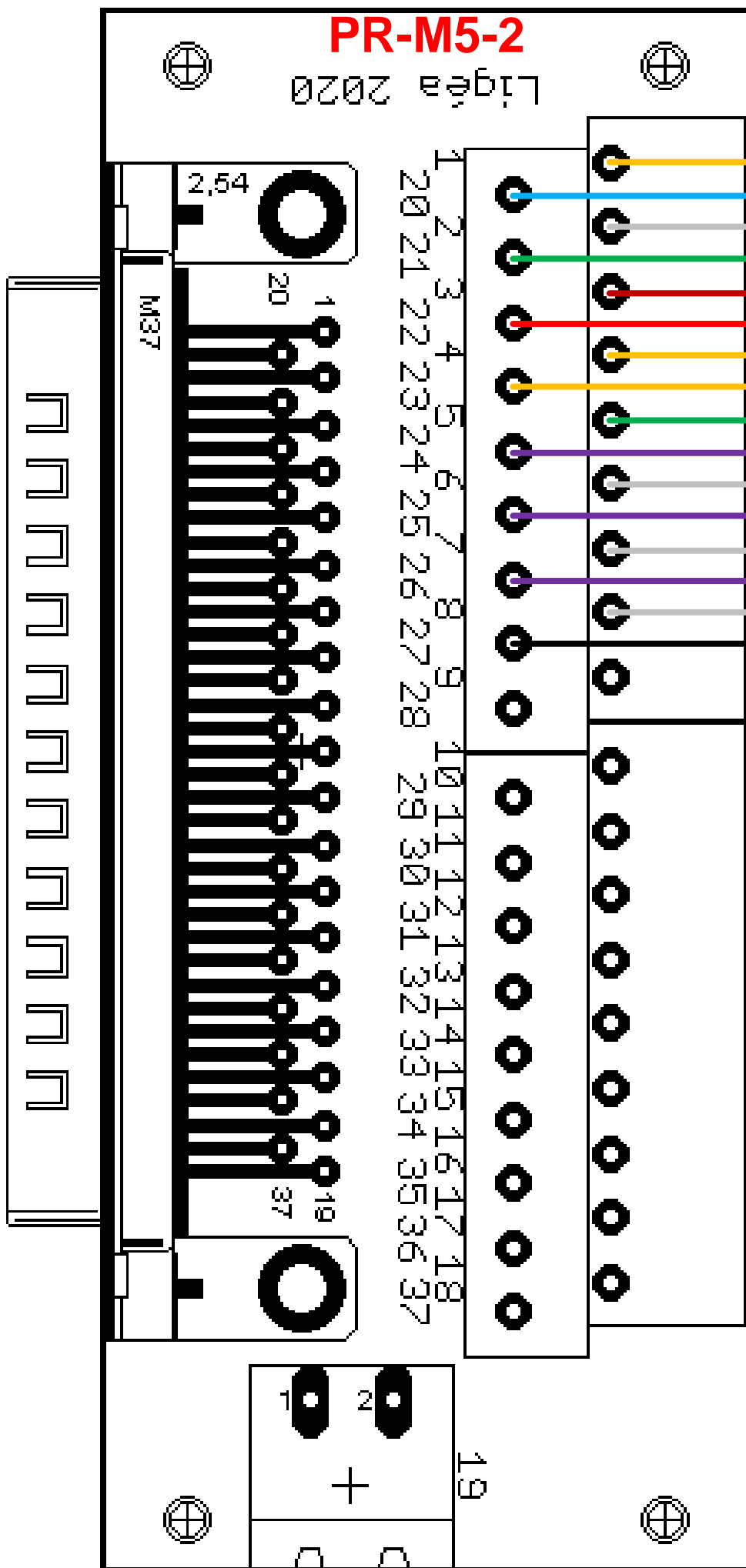


Schéma 3-01-02 : Moteur branchement 2

Moteurs

Schéma 2-01-09 : Signal C12

Schéma 2-02-03 : Signal CvD1

Schéma 2-02-04 : Signal CvD2

Schéma 2-02-05 : Signal CvD3

Schéma 2-02-22 : TIV 70

Signaux

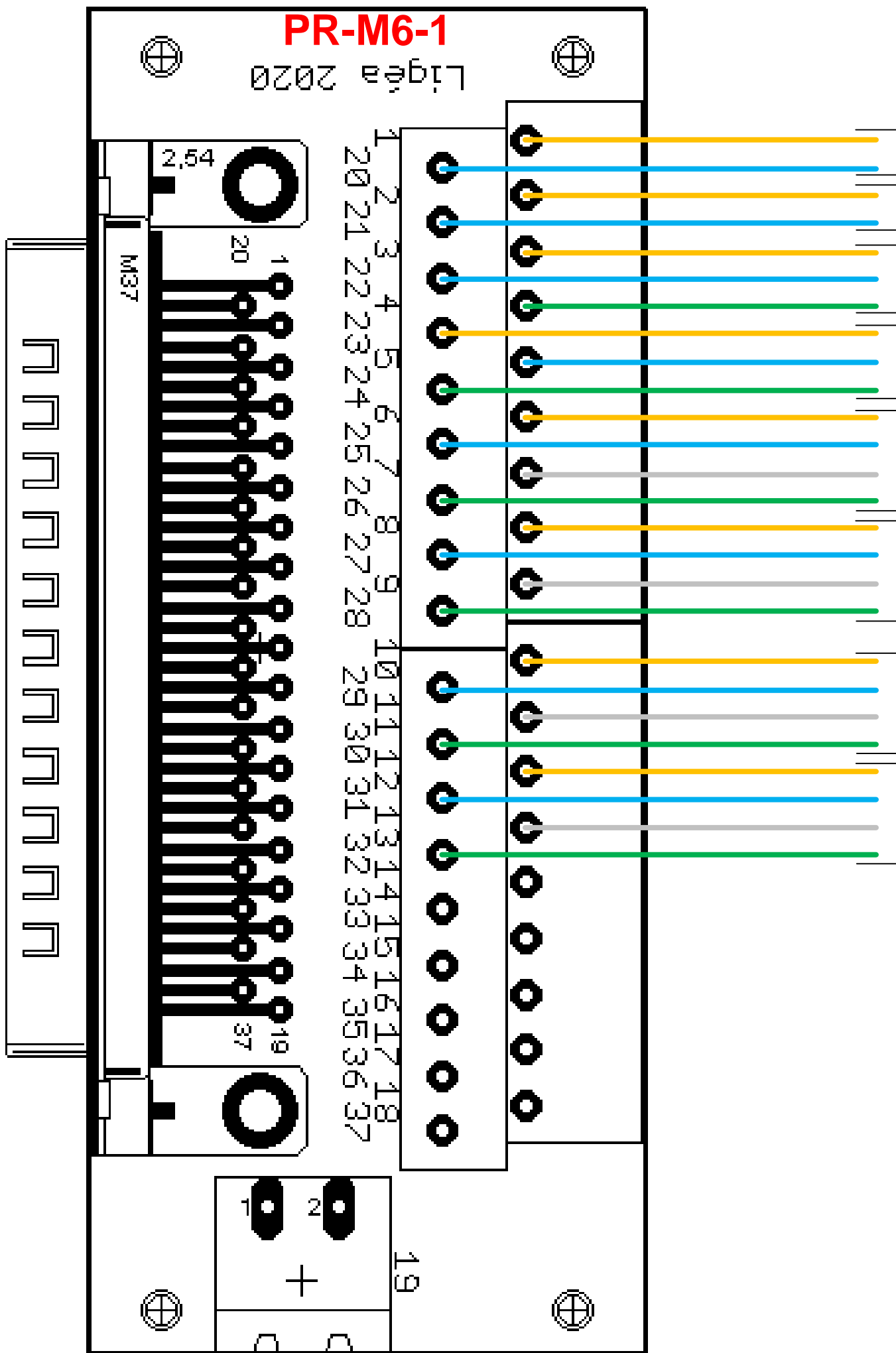


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Plaque de raccordement Module 5 : PR-M5-2

17/01/2023

Feuille : 0-04-04



- Schéma 4-01-03 : Traction – Branchement 1
- Schéma 4-02-02 : Traction – Branchement 7
- Schéma 4-02-04 : Traction – Signal C13 – Zone 5
- Schéma 4-02-05 : Traction – Signal C15 – Zone 7

Traction

- Schéma 3-01-01 : Moteur branchement 1
- Schéma 3-01-07 : Moteur branchement 7
- Schéma 3-01-10 : Moteur branchement 10
- Schéma 3-01-12 : Moteur branchement 12

Moteurs



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Plaque de raccordement Module 6 : PR-M6-1

20/10/2022

Feuille : 0-04-05

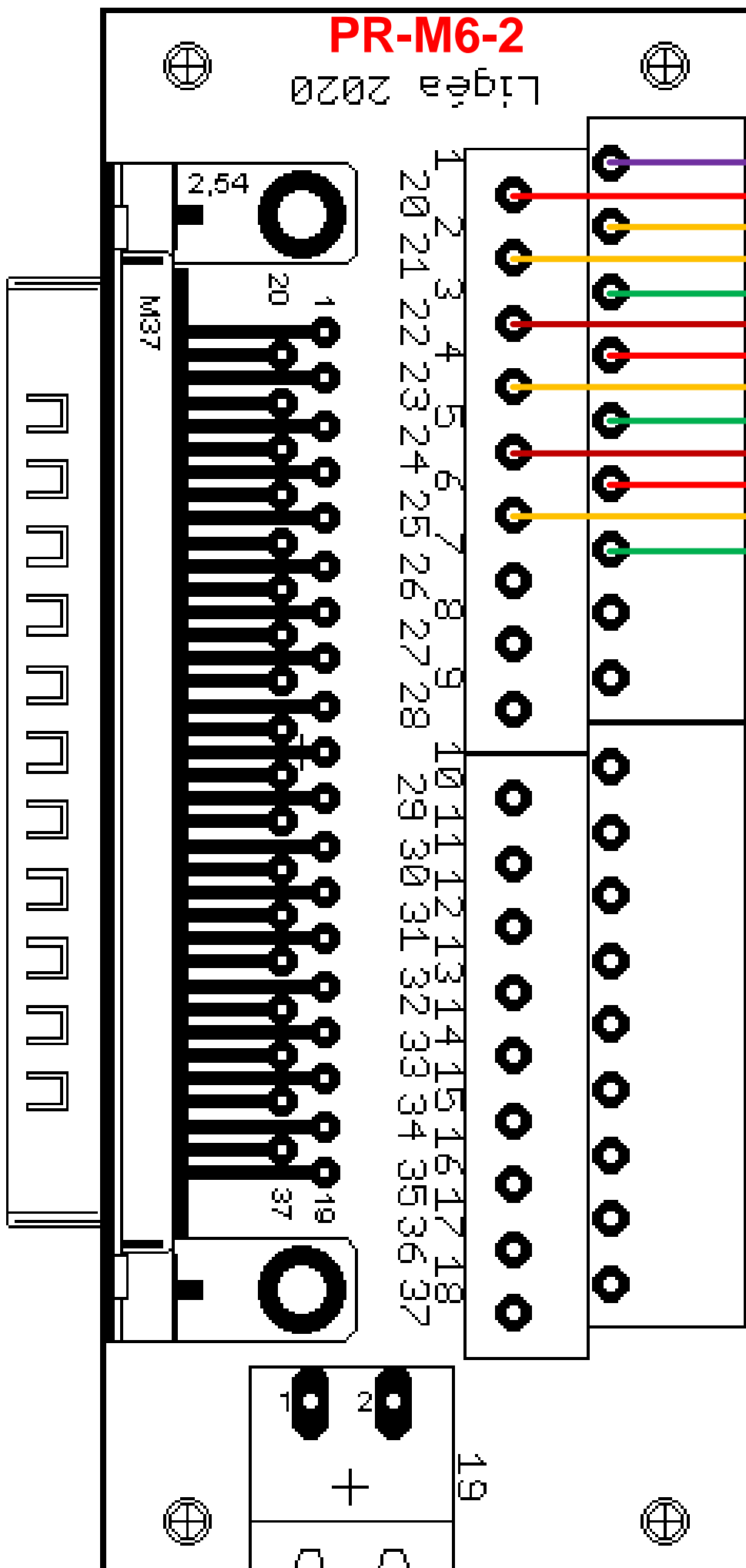


Schéma 2-01-08 : Signal C11

Schéma 2-01-10 : Signal C13

Schéma 2-01-11 : Signal C15

Signaux



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Plaque de raccordement Module 6 : PR-M6-2

20/10/2022

Feuille : 0-04-06

PR-M7-1

Ligne 2020

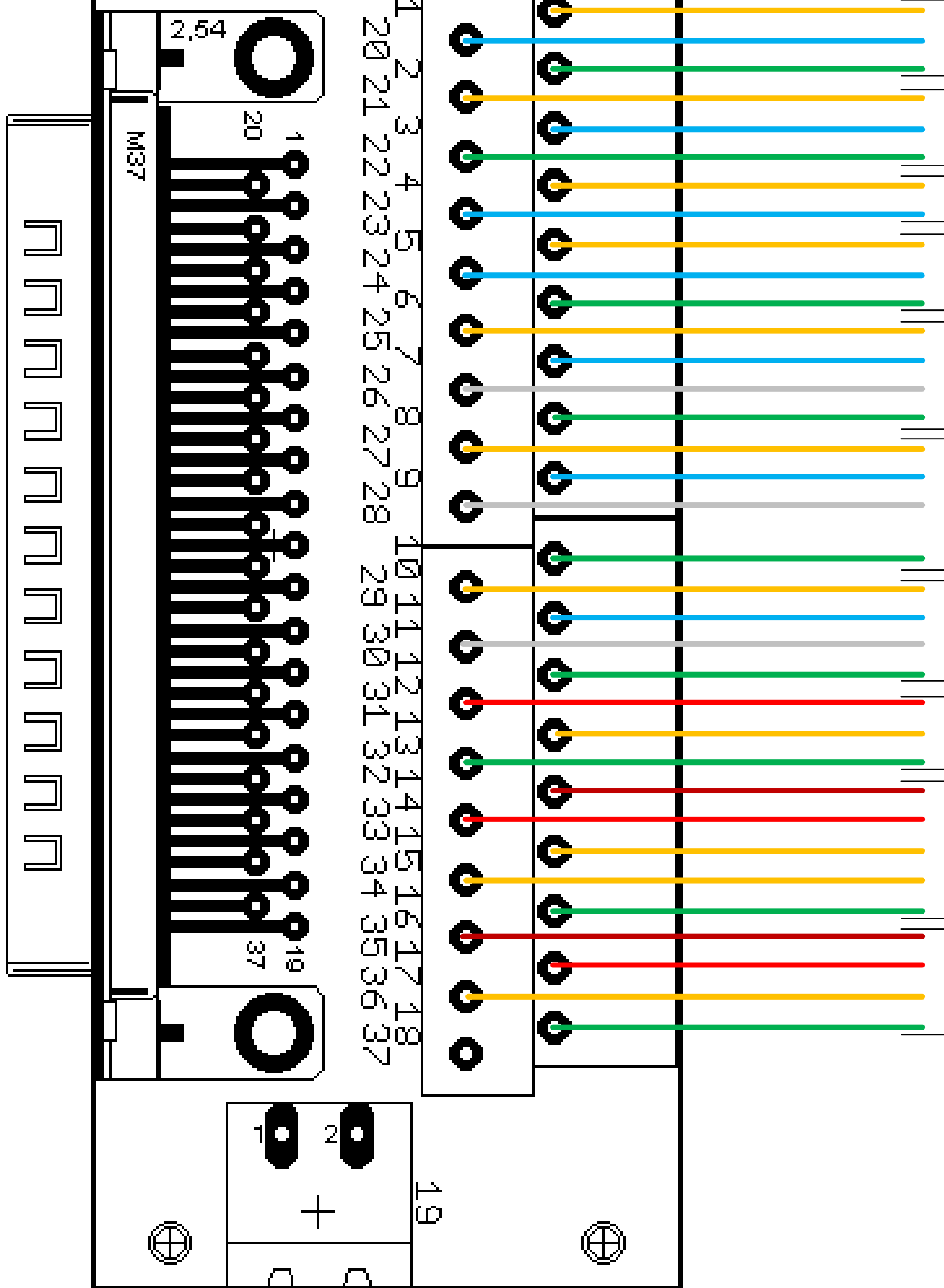


Schéma 4-01-02 : Traction – Signal S14 – Zone 12

Schéma 4-01-01 : Traction – Signal C1 – Zone 37

Schéma 4-02-08 : Traction – Branchements 10 – 12 – TJD 9

Schéma 4-02-06 : Traction – Signal C17 – Zone 9

Traction

Schéma 3-01-09 : Moteur – TJD 9

Schéma 3-01-09 : Moteur – TJD 9

Moteurs

Schéma 3-01-11 : Moteur – Branchement 11

Schéma 2-02-12 : Signal S14

Schéma 2-01-01 : Signal C1

Signaux

Schéma 2-01-12 : Signal C17



Ladybird – Réseau BOB-TEE 91

Plaque de raccordement Module 7 : PR-M7-1

09/11/2022

Feuille : 0-04-07

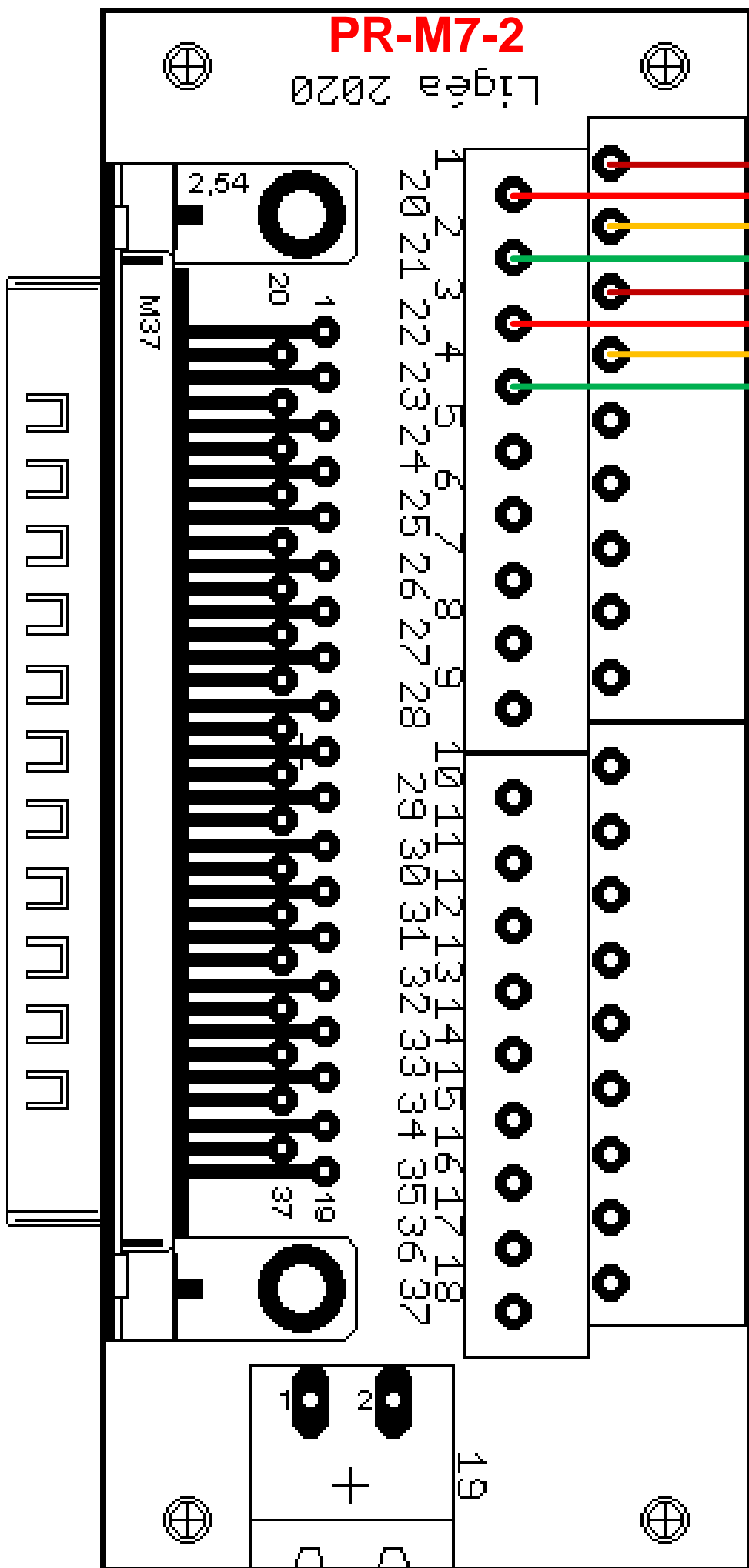


Schéma 2-01-05 : Signal C6

Schéma 2-01-06 : Signal C8

Signaux



Ladybird – Réseau BOB-TEE 91

Plaque de raccordement Module 7 : PR-M7-2

20/10/2022

Feuille : 0-04-08

PR-M8

Ligne 2020

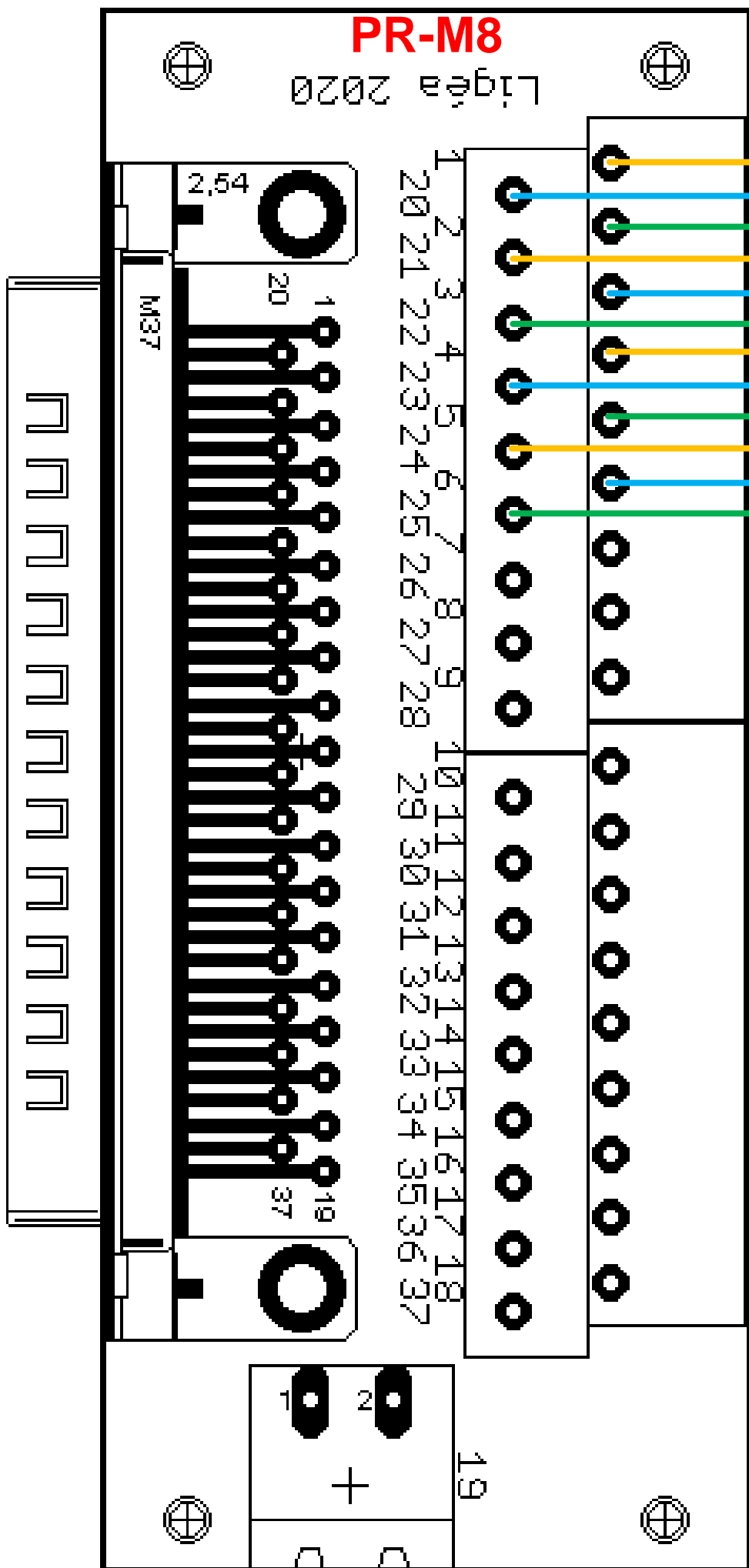


Schéma 4-02-09 : Traction – Signal C19 – Voie 3

Schéma 4-02-10 : Traction – Signal C21 – Voie 1

Schéma 4-02-11 : Traction – Signal C6 – Voie 4

Schéma 4-02-12 : Traction – Signal C8 – Voie 2

Traction



Ladybird – Réseau BOB-TEE 91

Plaque de raccordement Module 8 : PR-M8

22/10/2022

Feuille : 0-04-09

PR-M9-1

Ligne 2020

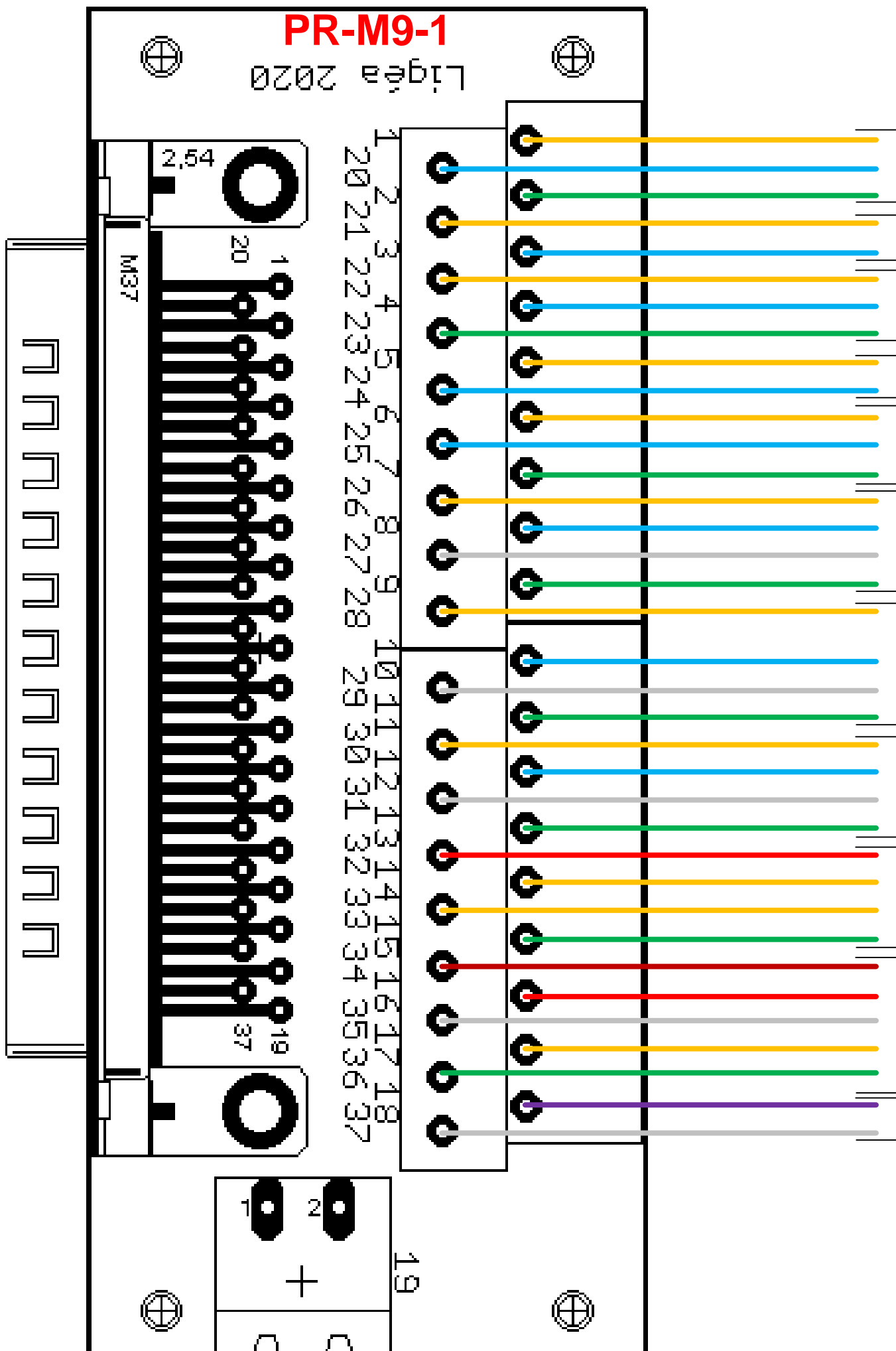


Schéma 4-03-05 : Traction – Signal S37 – Zone 35

Schéma 4-03-01 : Traction – Branchement 13

Schéma 4-03-04 : Traction – Signal Cv23 – Voie VM

Schéma 4-03-02 : Traction – Branchement 16

Schéma 4-03-03 : Traction – Signal C2 – Zone 36

Traction

Schéma 3-01-13 : Moteur – Branchement 13

Schéma 3-02-01 : Moteur – Branchement 14

Schéma 3-02-03 : Moteur – Branchement 16

Moteurs

Schéma 2-02-21 : Signal S37

Schéma 2-01-13 : Signal C19

Schéma 2-02-07 : Signal Cv23

Signaux



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Plaque de raccordement Module 9 : PR-M9-1

20/10/2022

Feuille : 0-04-10

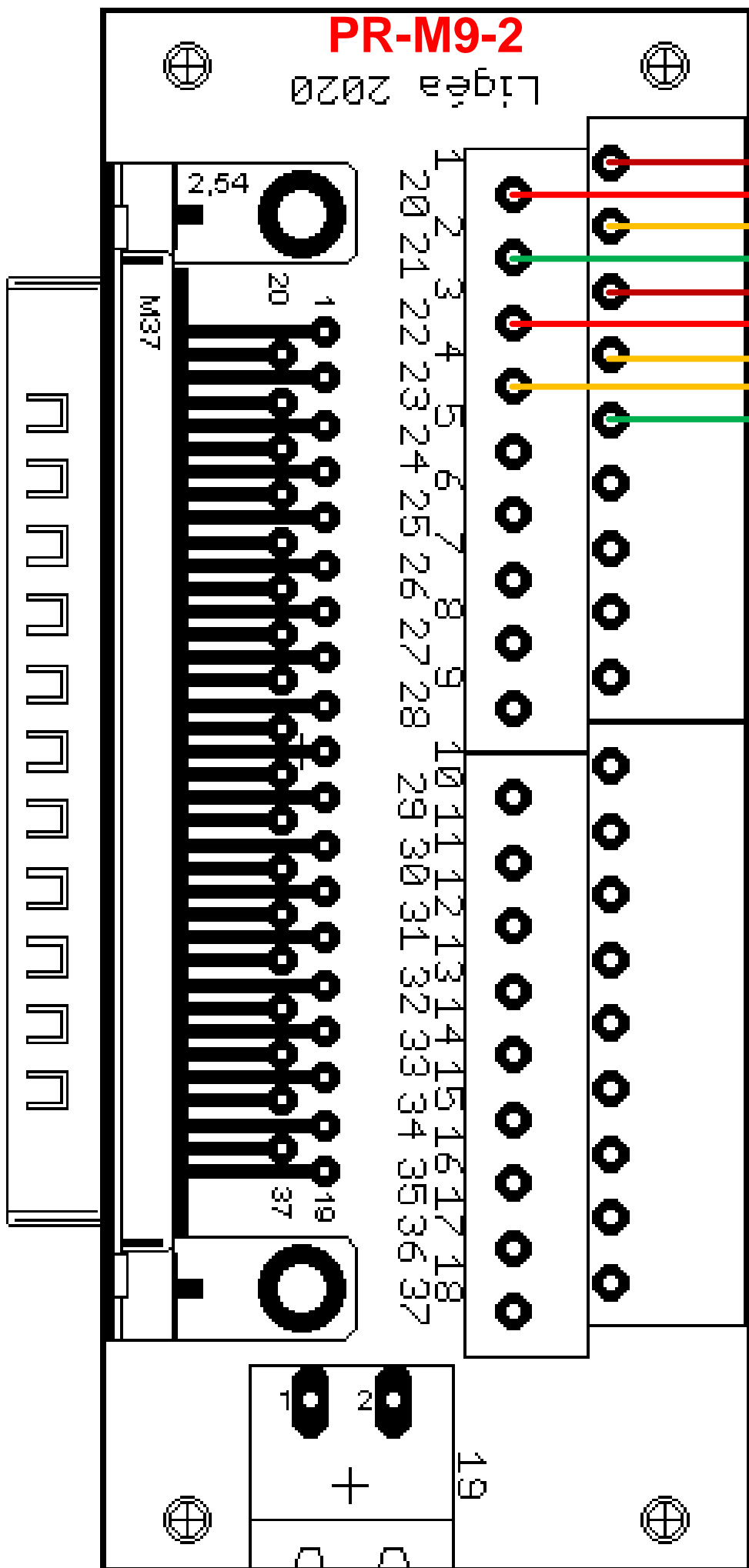


Schéma 2-01-14 : Signal C21

Schéma 2-01-02 : Signal C2

Signaux



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Plaque de raccordement Module 9 : PR-M9-2

20/10/2022

Feuille : 0-04-11

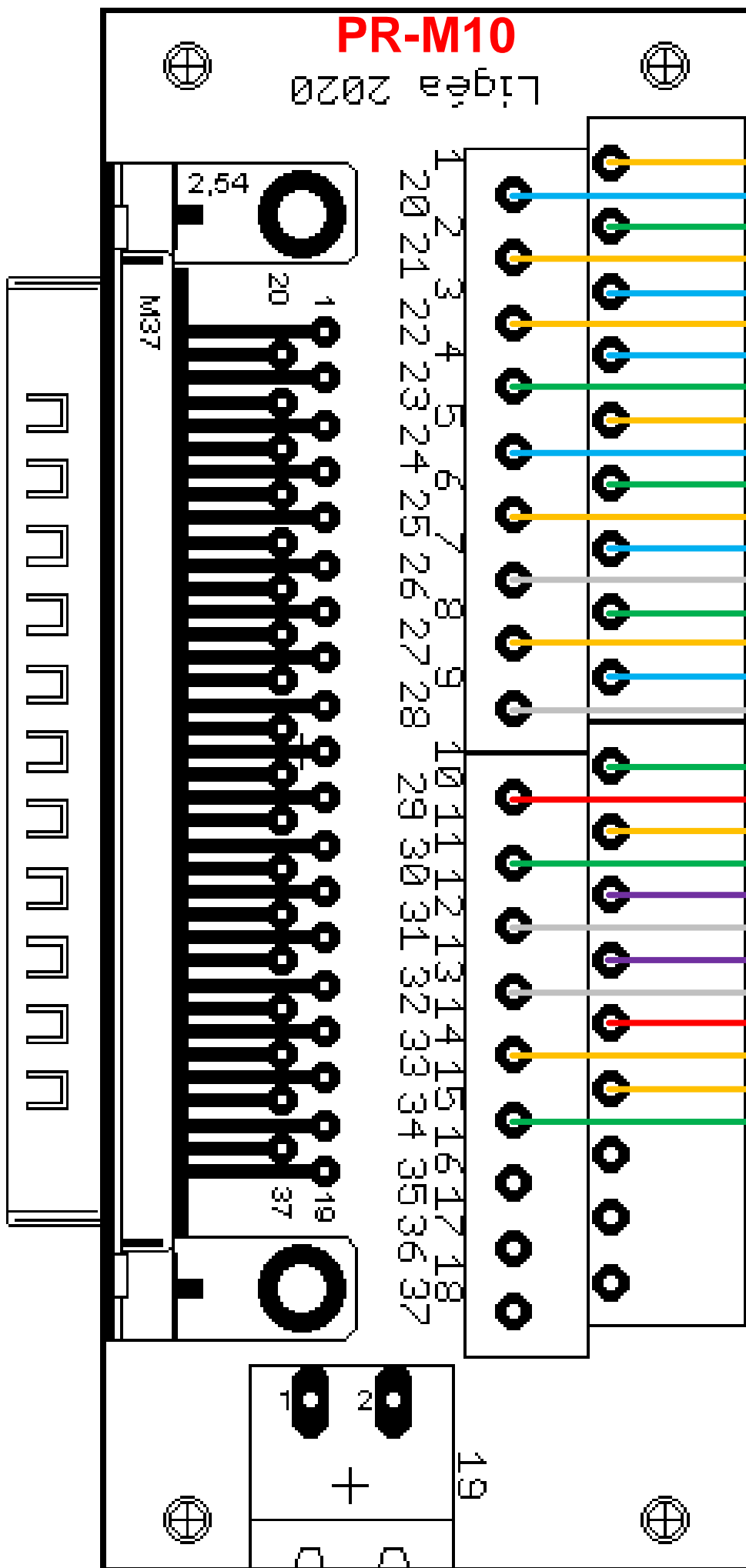


Schéma 4-03-08 : Traction – Signal S16 – Zone 14

Schéma 4-03-06 : Traction – Branchement 18

Schéma 4-03-07 : Traction – Signaux Cv4 - Cv25 – Voie S1

Schéma 4-03-09 : Traction – Signal S36 – Zone 34

Traction

Schéma 3-02-05 : Moteur – Branchement 18

Schéma 3-02-07 : Moteur – Branchement 20

Moteurs

Schéma 2-02-13 : Signal S16

Schéma 2-02-06 : Signal Cv4

Schéma 2-02-08 : Signal Cv25

Schéma 2-02-20 : Signal S36

Signaux



Ladybird – Réseau BOB-TEE 91

Plaque de raccordement Module 10 : PR-M10

20/10/2022

Feuille : 0-04-12

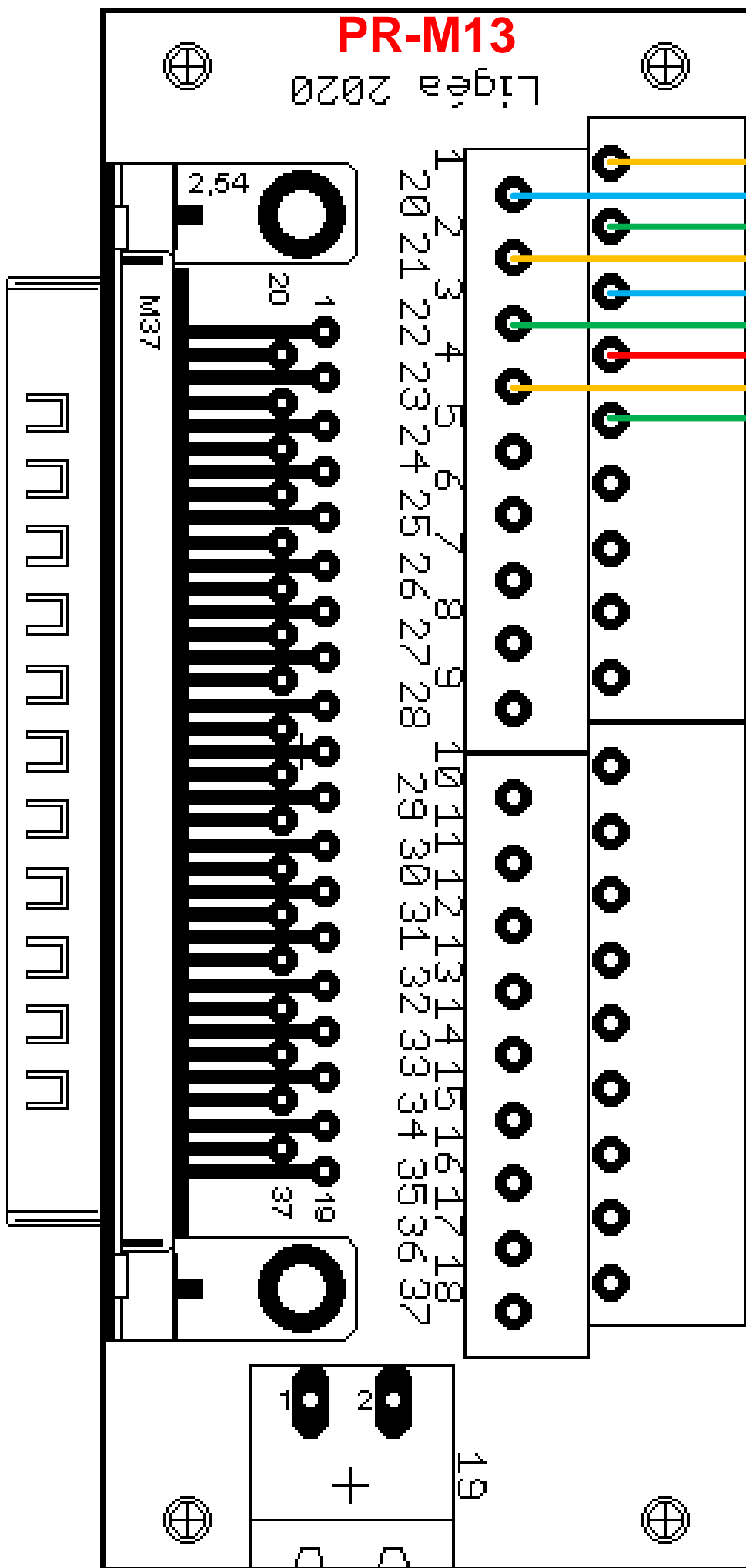


Schéma 4-03-11 : Traction – Signal S18 – Zone 16

Schéma 4-03-10 : Traction – Signaux Cv27 – Cv34 – Voie S2

Schéma 2-02-14 : Signal S18

Traction

Signaux

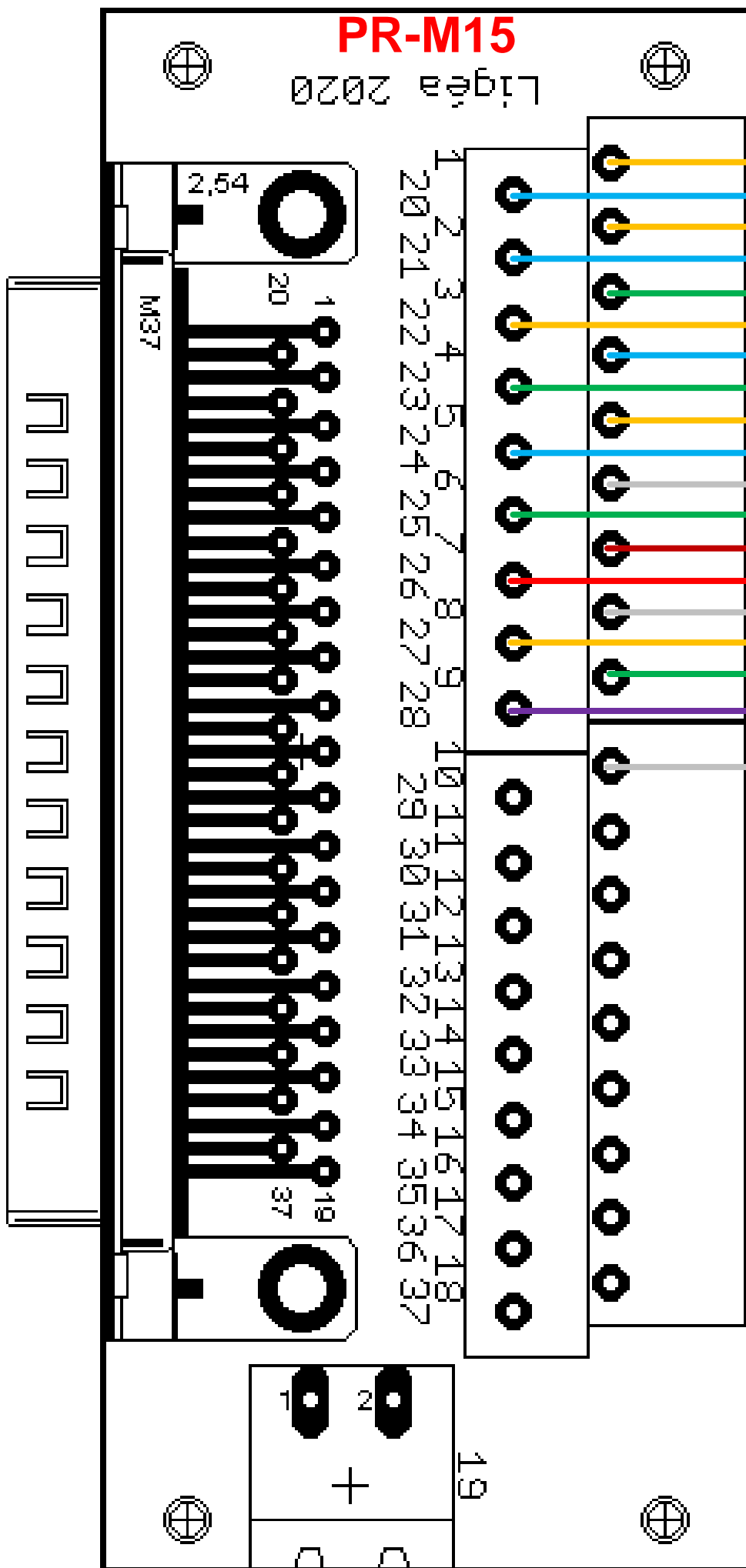


Ladybird – Réseau BOB-TEE 91

Plaque de raccordement Module 13 : PR-M13

20/10/2022

Feuille : 0-04-13



- Schéma 4-03-12 : Traction – Branchement 15
- Schéma 4-04-01 : Traction – Signal C30 – Zone 24 – Branchement 17
- Schéma 4-04-02 : Traction – Signal Cv32 – Voie M2
- Schéma 3-02-02 : Moteur – Branchement 15
- Schéma 2-02-02 : Signal C30
- Schéma 2-02-09 : Signal Cv32

Traction

Moteurs

Signaux

PR-M16

Ligne 2020

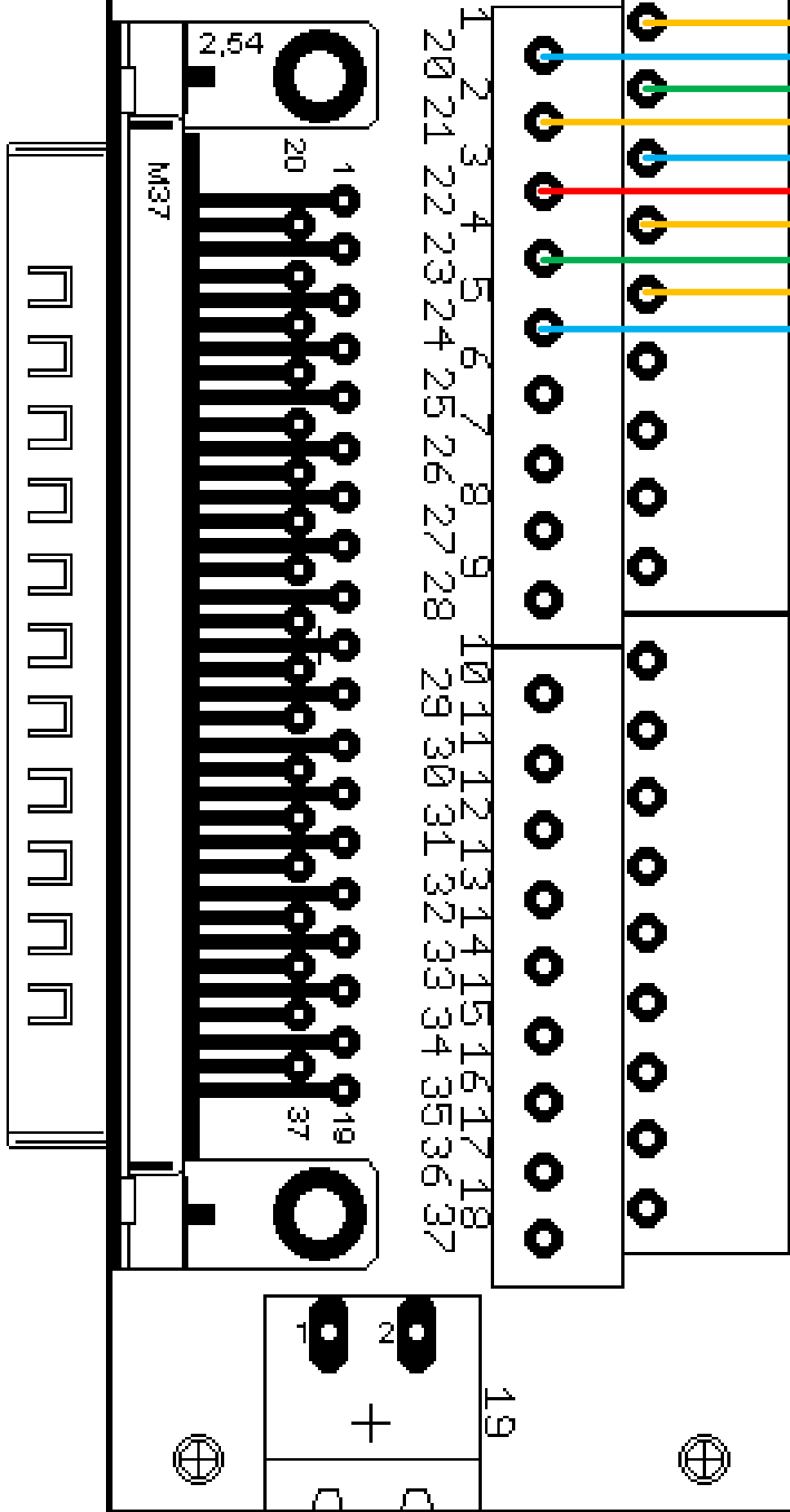


Schéma 4-04-04 : Traction – Signal C29 – Zone 21 – Branchements 14 – 20

Schéma 4-04-09 : Traction – Signal S20 – Zones 18a – 18b

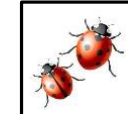
Schéma 2-02-19 : Signal S35

Schéma 5-01-01 : Commande du passage à niveau

Traction

Signaux

PN



Ladybird – Réseau BOB-TEE 91

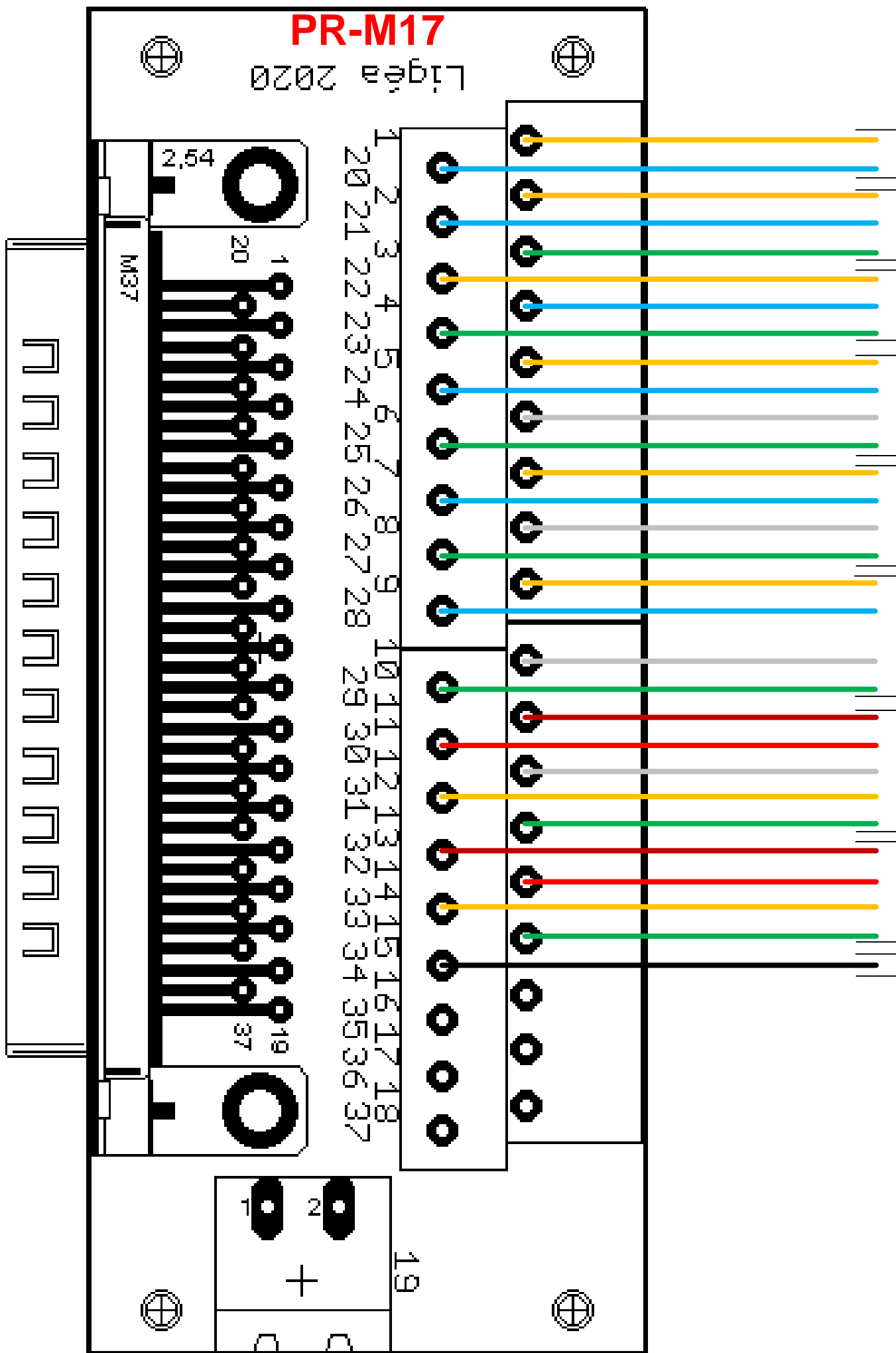
Plaque de raccordement Module 16 : PR-M16

22/01/2023

Feuille : 0-04-15

PR-M17

Ligne 2020



- Schéma 4-04-05 : Traction – TJS 19 – Branchement 21
- Schéma 4-04-06 : Traction – Signal C24 – Zone 22
- Schéma 4-04-03 : Traction – Signal S35 – Zone 33

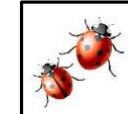
Traction

- Schéma 3-02-04 : Moteur – Branchement 17
- Schéma 3-02-06 : Moteur – TJS 19
- Schéma 3-02-06 : Moteur – TJS 19

Moteurs

- Schéma 2-02-01 : Signal C29
- Schéma 2-01-15 : Signal C24
- Schéma 2-02-23 : TIV 90

Signaux



Ladybird – Réseau BOB-TEE 91

Plaque de raccordement Module 17 : PR-M17

22/10/2022

Feuille : 0-04-16

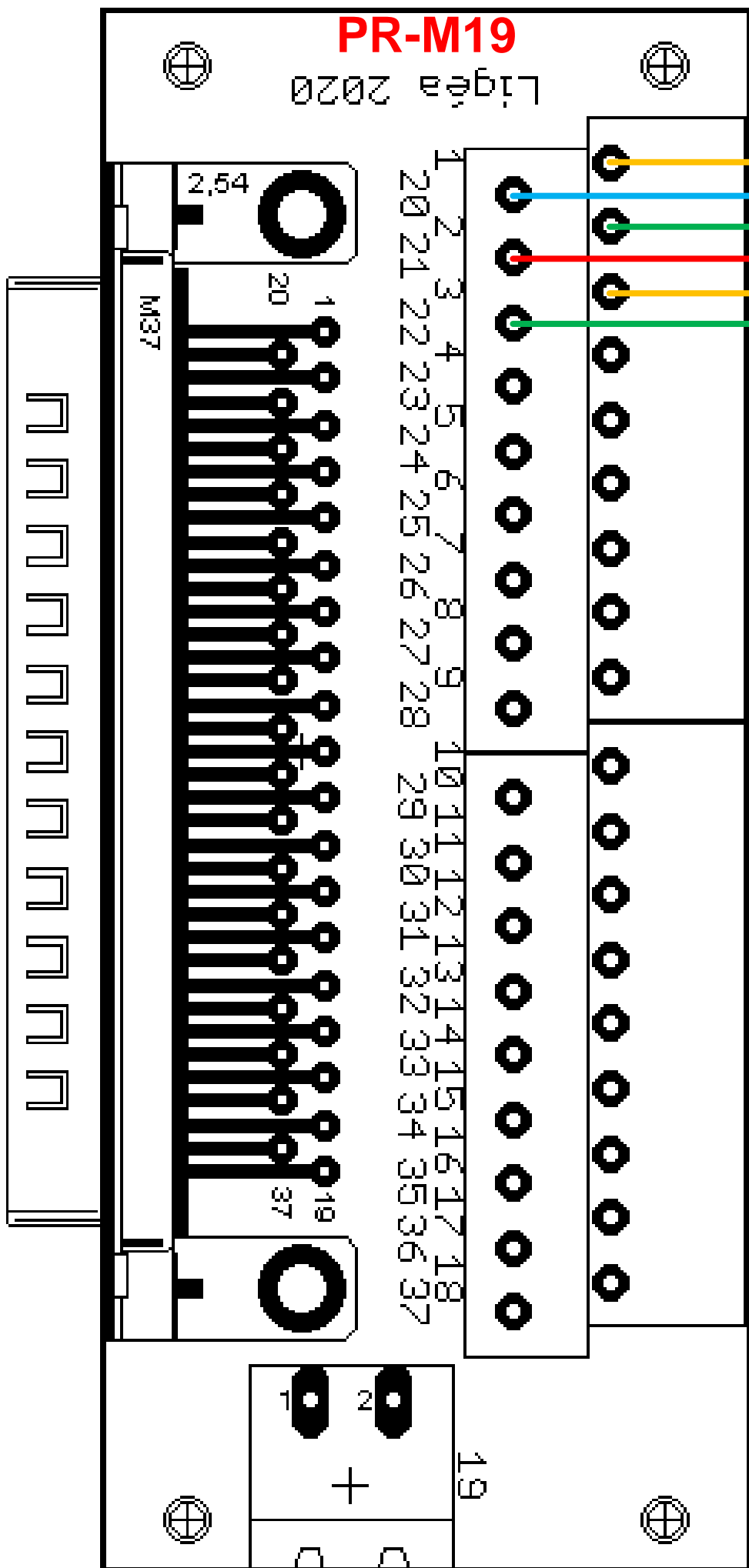


Schéma 4-04-09 – Traction – Signal S20 – Zones 18a-18b

Traction

Schéma 2-02-15 – Signal S20

Signaux

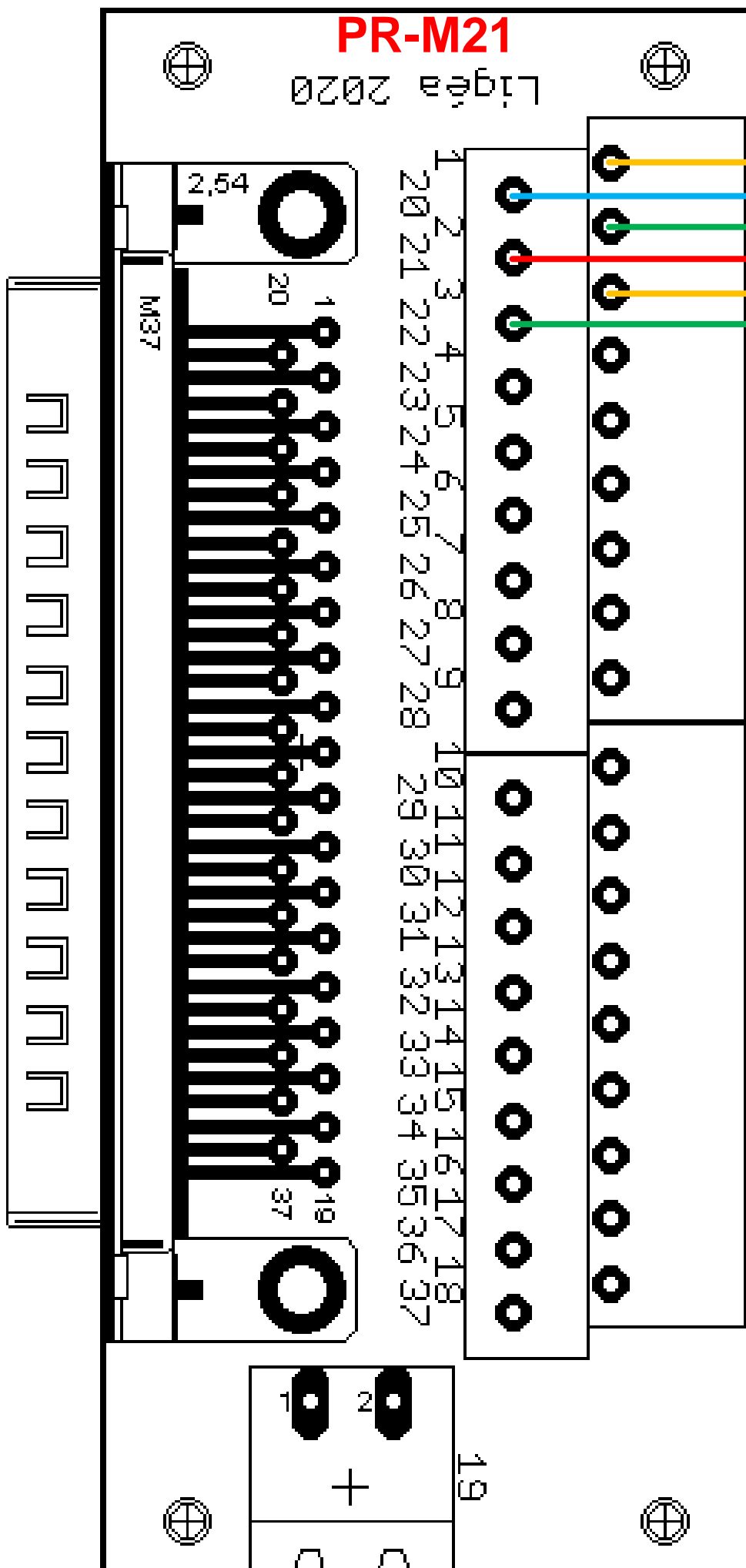


Ladybird – Réseau BOB-TEE 91

Plaque de raccordement Module 19 : PR-M19

20/10/2022

Feuille : 0-04-17



Traction
 Signaux

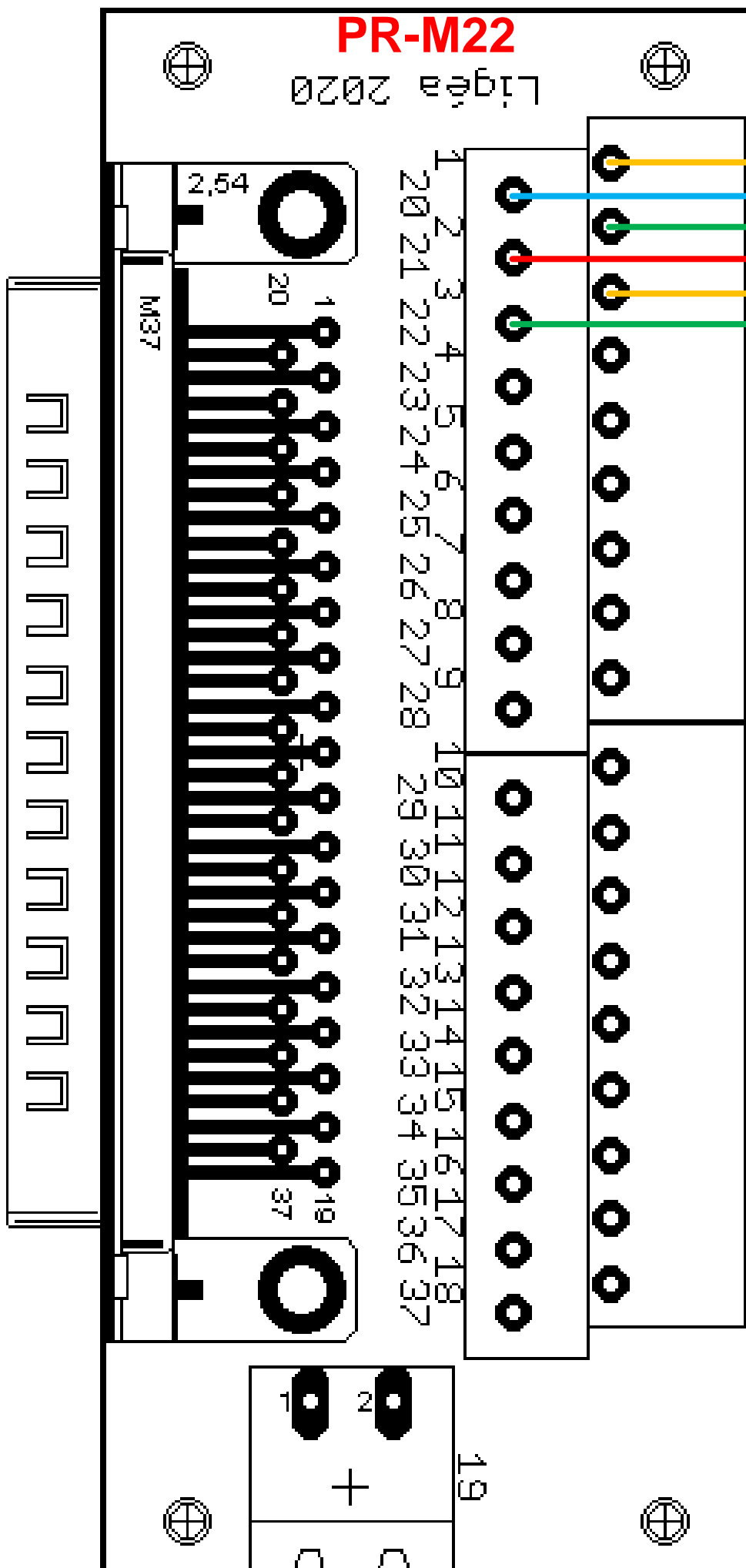


Schéma 4-04-11 – Traction – Signal S22 – Zone 20

Traction

Schéma 2-02-16 – Signal S22

Signaux

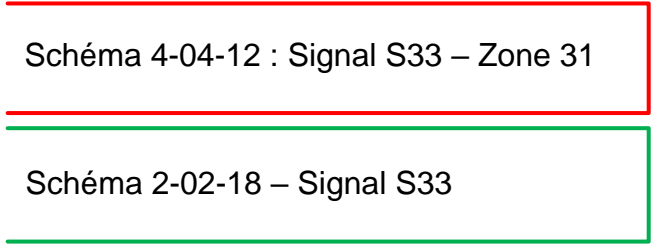
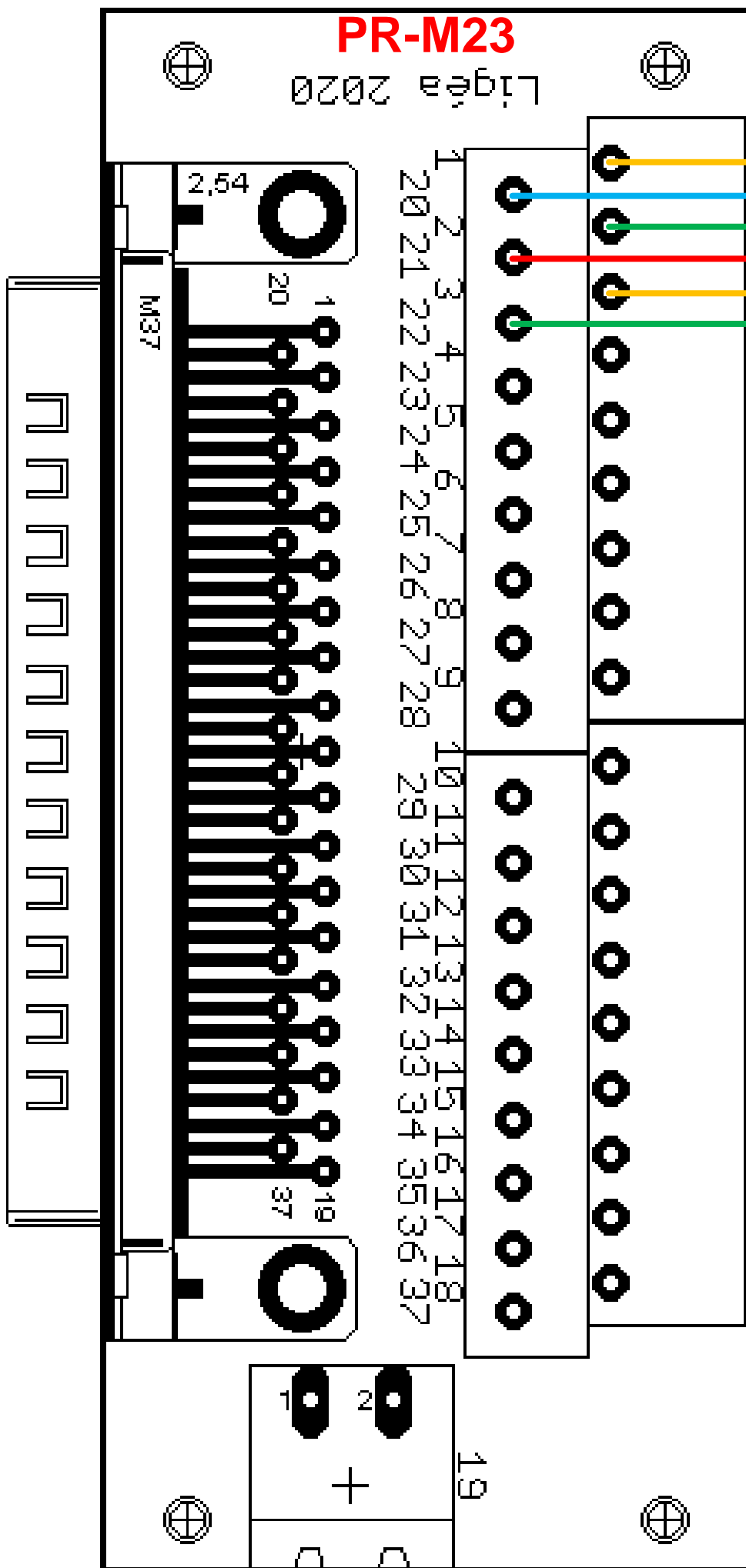


Ladybird – Réseau BOB-TEE 91

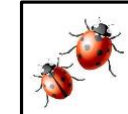
Plaque de raccordement Module 22 : PR-M22

20/10/2022

Feuille : 0-04-19



Traction
 Signaux



Ladybird – Réseau BOB-TEE 91

Plaque de raccordement Module 23 : PR-M23

20/10/2022

Feuille : 0-04-20

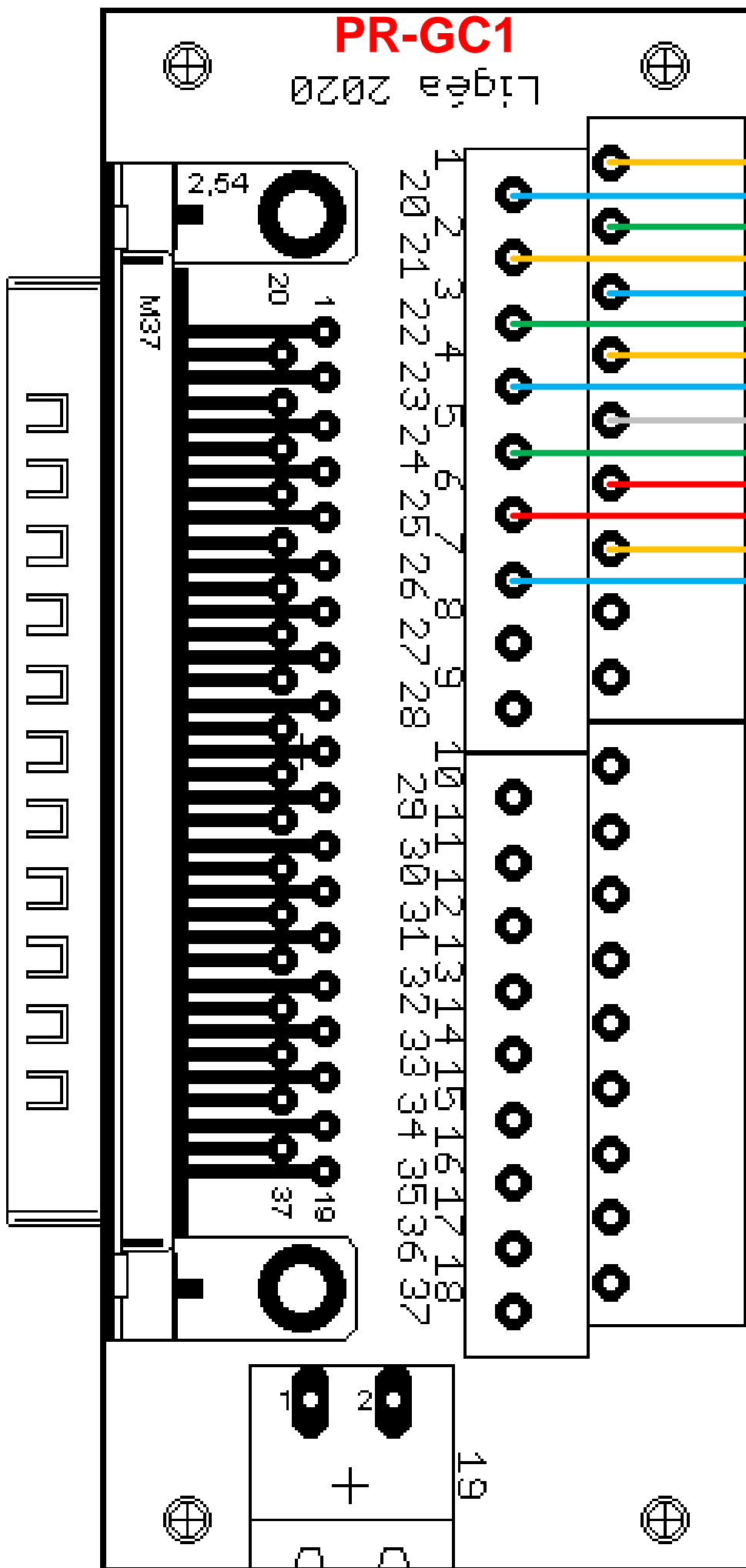


Schéma 4-01-06 – Traction – Signal C3 – Voie G21

Schéma 4-01-07 – Traction – Signal C5 – Voie G22

Schéma 3-01-06 – Moteur – Branchement 6

Schéma 2-01-03 – Signal C3

Schéma 2-01-04 – Signal C5

Voie de programmation

Traction

Moteurs

Signaux

Programmation décodeurs DCC



Ladybird – Réseau BOB-TEE 91

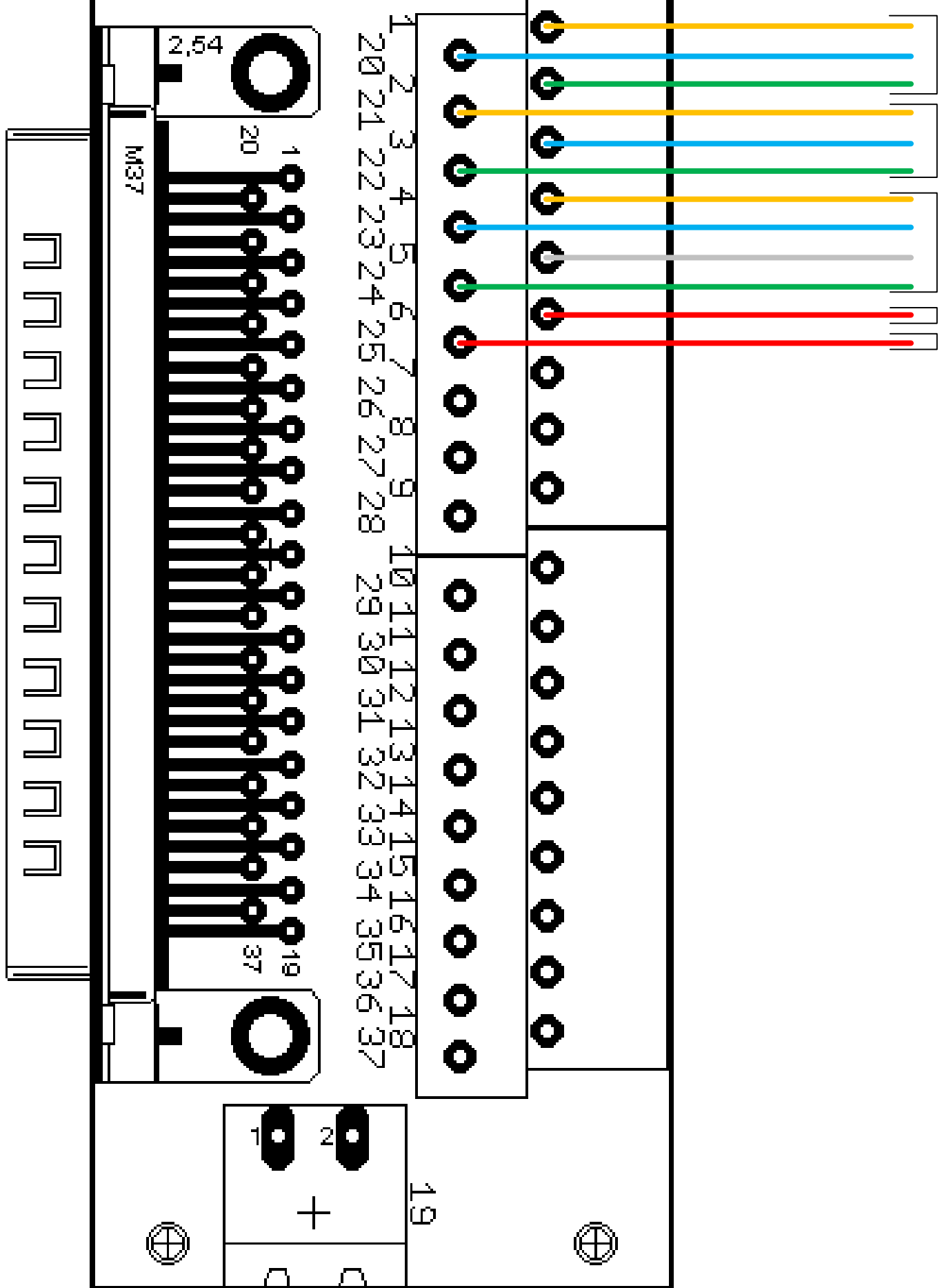
Plaque de raccordement gare cachée sortie V1 : PR-GC1

21/10/2021

Feuille : 0-04-21

PR-GC2

Ligne 2020



- Schéma 4-04-07 – Traction – Signal C26 – Voie G14
- Schéma 4-04-08 – Traction – Signal C28 – Voie G12
- Schéma 3-02-08 – Moteur – Branchement 21
- Schéma 2-01-16 – Signal C26
- Schéma 2-01-17 – Signal C28

Traction

Moteurs

Signaux



Ladybird – Réseau BOB-TEE 91

Plaque de raccordement gare cachée sortie V2 : PR-GC2

20/10/2022

Feuille : 0-04-25

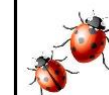
Câblage des signaux

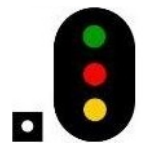
| Signaux | N° de schéma |
|---------|--------------|
| C1 | 2-01-01 |
| C2 | 2-01-02 |
| C3 | 2-01-03 |
| C5 | 2-01-04 |
| C6 | 2-01-05 |
| C8 | 2-01-06 |
| C9 | 2-01-07 |
| C11 | 2-01-08 |
| C12 | 2-01-09 |
| C13 | 2-01-10 |
| C15 | 2-01-11 |
| C17 | 2-01-12 |
| C19 | 2-01-13 |
| C21 | 2-01-14 |
| C24 | 2-01-15 |
| C26 | 2-01-16 |
| C28 | 2-01-17 |
| C29 | 2-02-01 |
| C30 | 2-02-02 |

| Signaux | N° de schéma |
|---------|--------------|
| CvD1 | 2-02-03 |
| CvD2 | 2-02-04 |
| CvD3 | 2-02-05 |
| Cv4 | 2-02-06 |
| Cv23 | 2-02-07 |
| Cv25 | 2-02-08 |
| Cv32 | 2-02-09 |

| Signaux | N° de schéma |
|---------|--------------|
| S7 | 2-02-10 |
| S10 | 2-02-11 |
| S14 | 2-02-12 |
| S16 | 2-02-13 |
| S18 | 2-02-14 |
| S20 | 2-02-15 |
| S22 | 2-02-16 |
| S31 | 2-02-17 |
| S33 | 2-02-18 |
| S35 | 2-02-19 |
| S36 | 2-02-20 |
| S37 | 2-02-21 |

| Signaux | N° de schéma |
|-----------|--------------|
| TIV 70 | 2-02-22 |
| TIV 90 | 2-02-23 |
| Tableau G | 2-03-01 |





S A VL

S10 – S14 – S16 – S18 – S 20 – S22 – S31 – S33 – S35




S A R VL

S7 – S36 – S37



C S A VL

C6 – C8 – C13 – C15 – C17 – C21 – C24

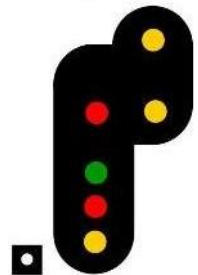
 Voyant rouge

C3 – C5 – C26 – C28



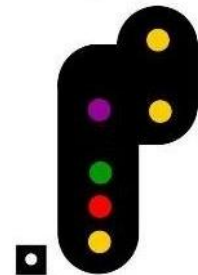
C S M A VL

C12 – C19 – C29 – C30



C S RR A VL

C1 – C2 – C9



Cv S RR A VL

C11



Cv M

CvD1 – CvD2 – CvD3 – Cv4 – Cv23 – Cv25 – Cv32



Cv M non implantés Cv27 – Cv34



TIV fixe éclairé sur le module 5



Tableau G mobile placé devant le signal C9



Ladybird – BOB-TEE91

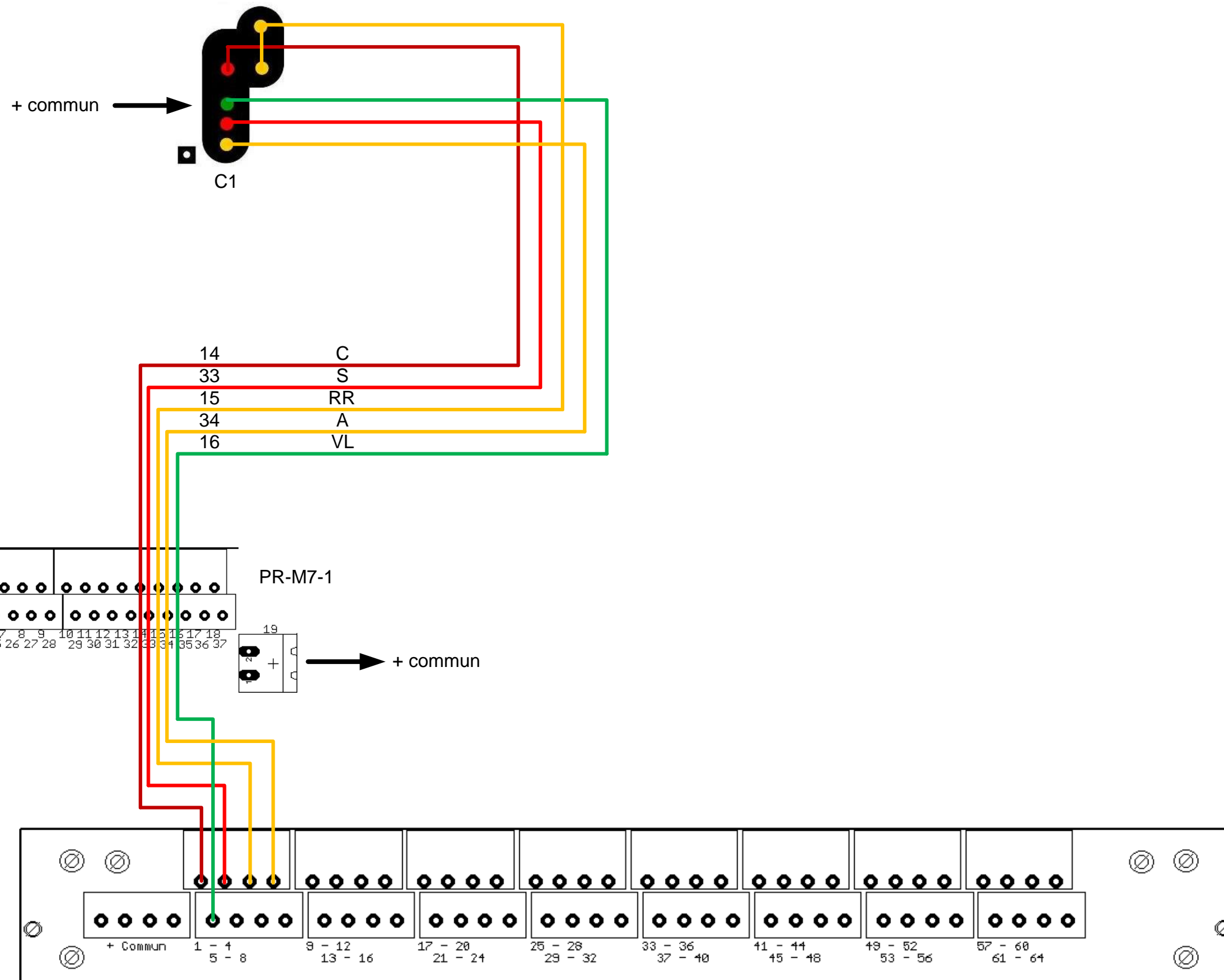


TIV fixe éclairé sur le module 17

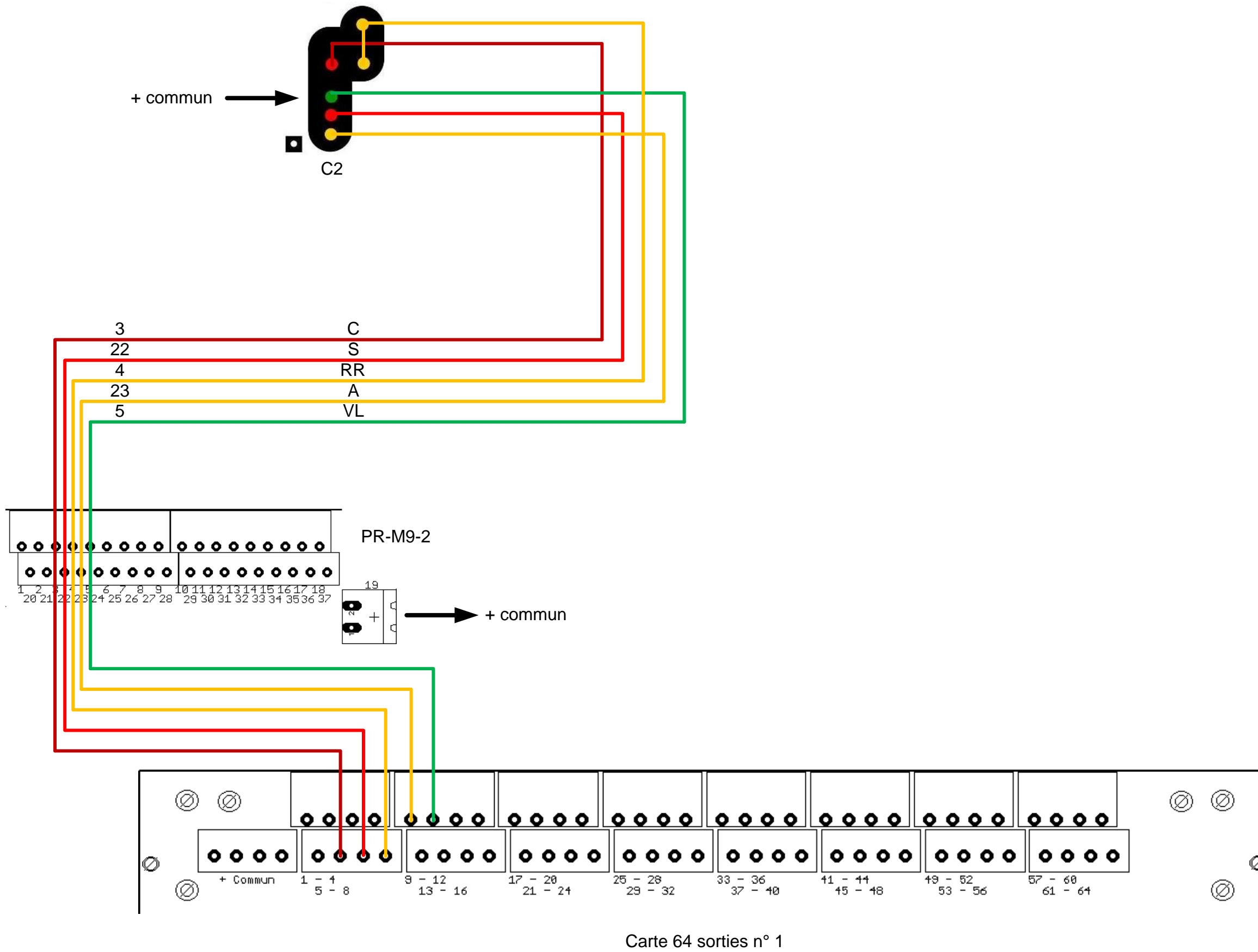
Cibles des signaux présents sur le réseau

14/10/2022

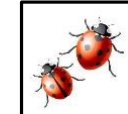
Feuille : 2-00-02



Carte 64 sorties n° 1



Carte 64 sorties n° 1

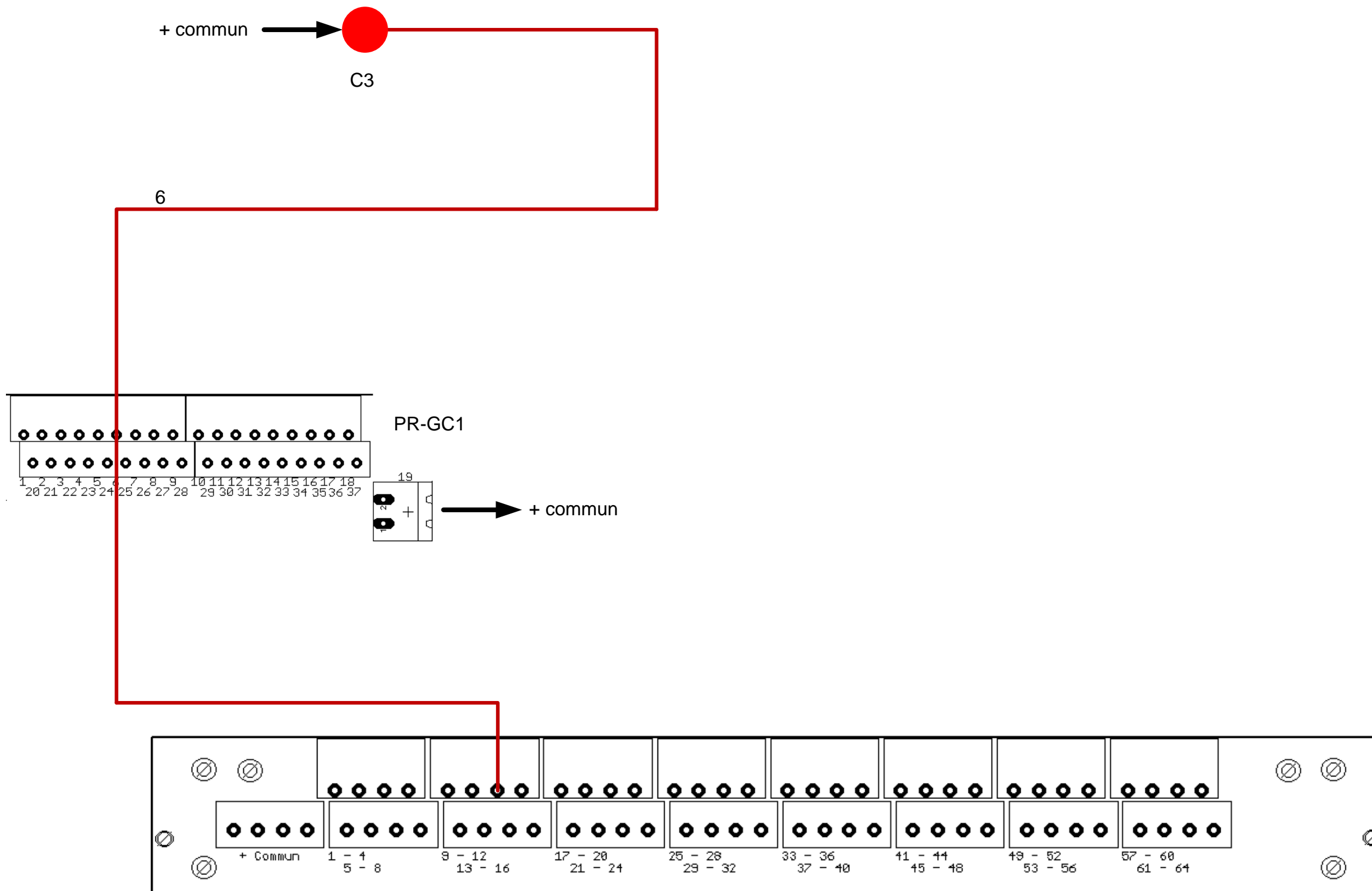


Ladybird – Réseau BOB-TEE 91

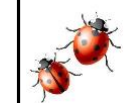
Signal C2

04/10/2022

Feuille : 2-01-02



Carte 64 sorties n° 1

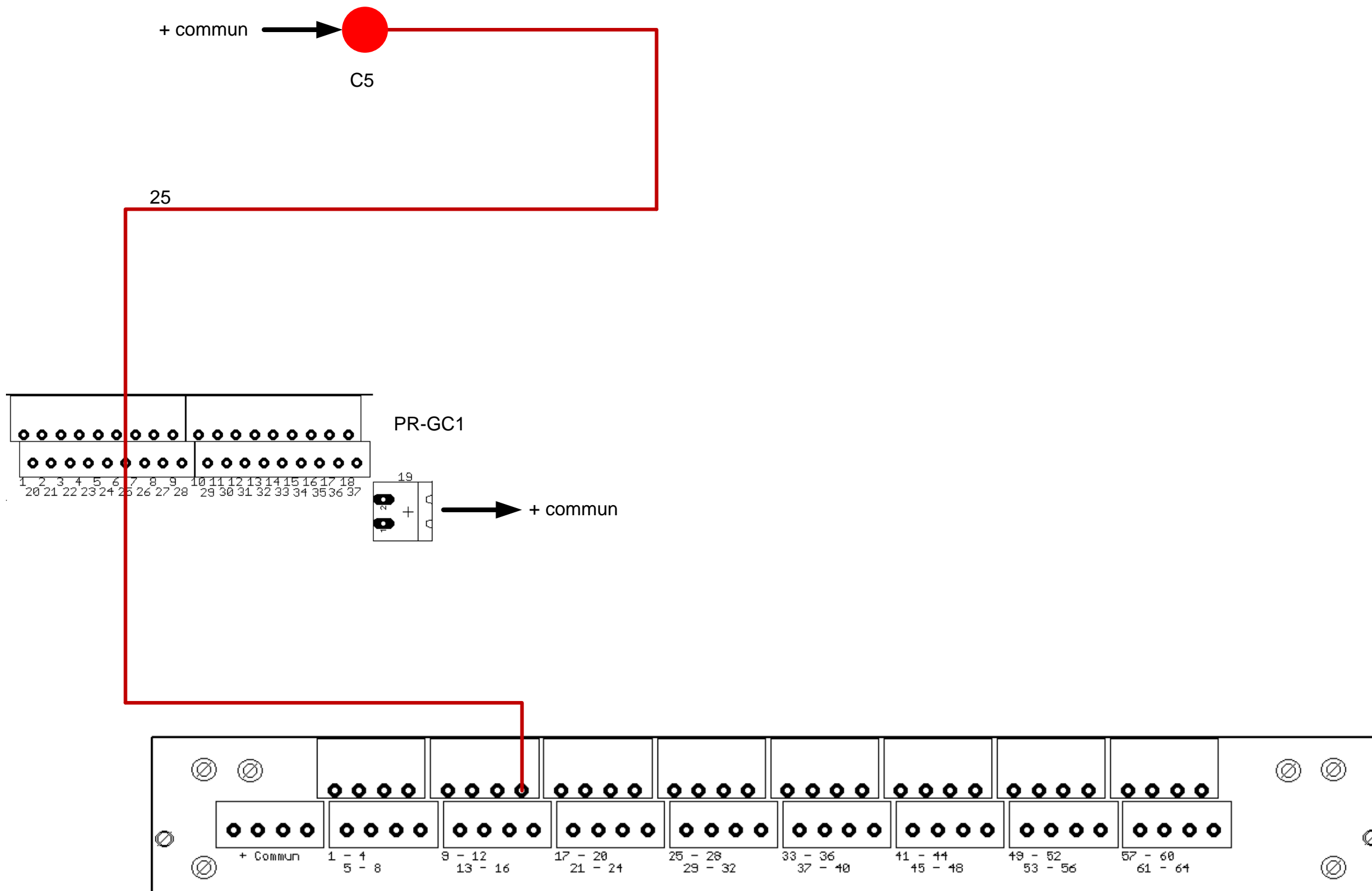


Ladybird – Réseau BOB-TEE 91

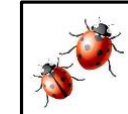
Signal C3

04/10/2022

Feuille : 2-01-03



Carte 64 sorties n° 1

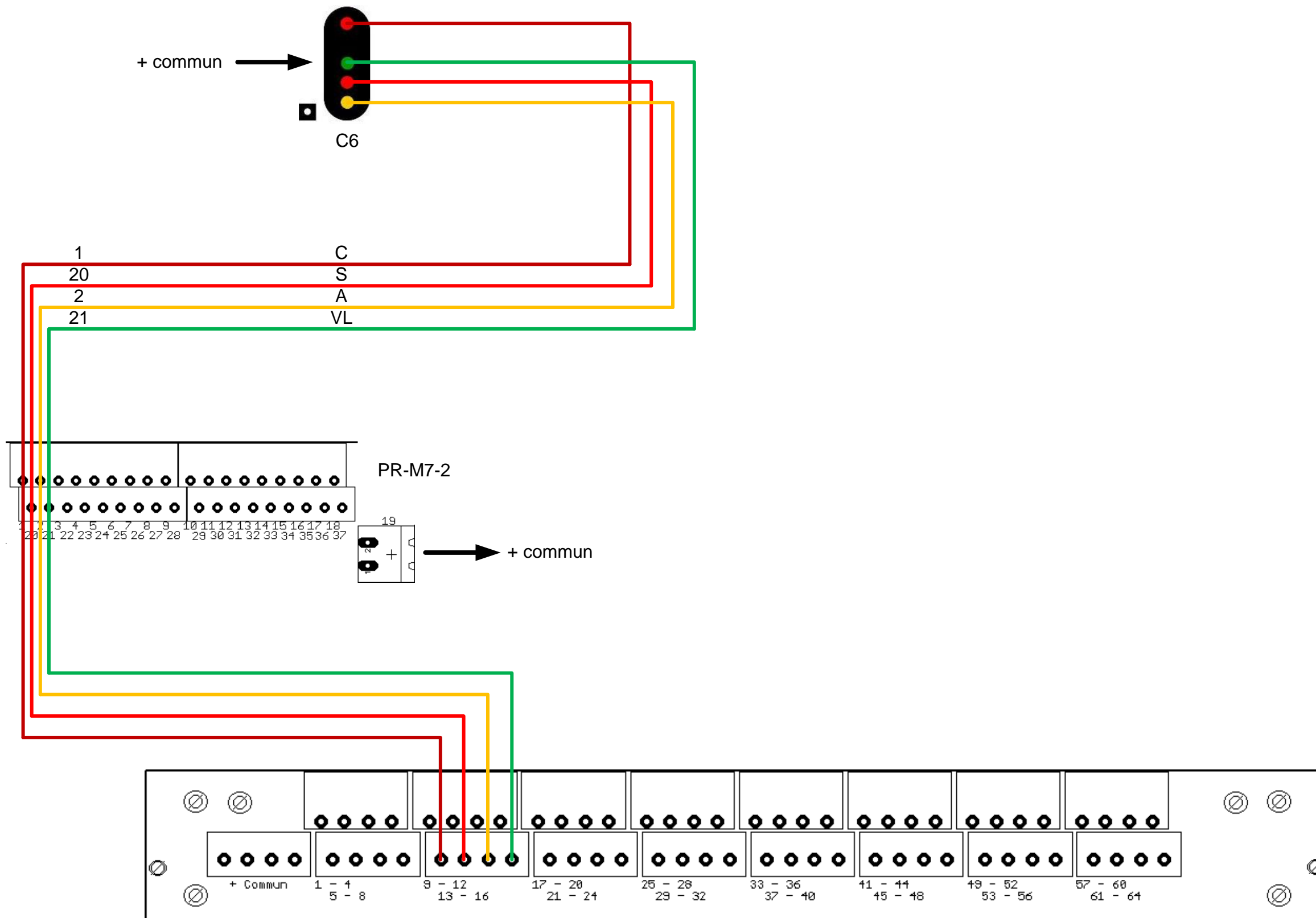


Ladybird – Réseau BOB-TEE 91

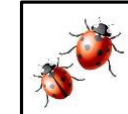
Signal C5

04/10/2022

Feuille : 2-01-04



Carte 64 sorties n° 1

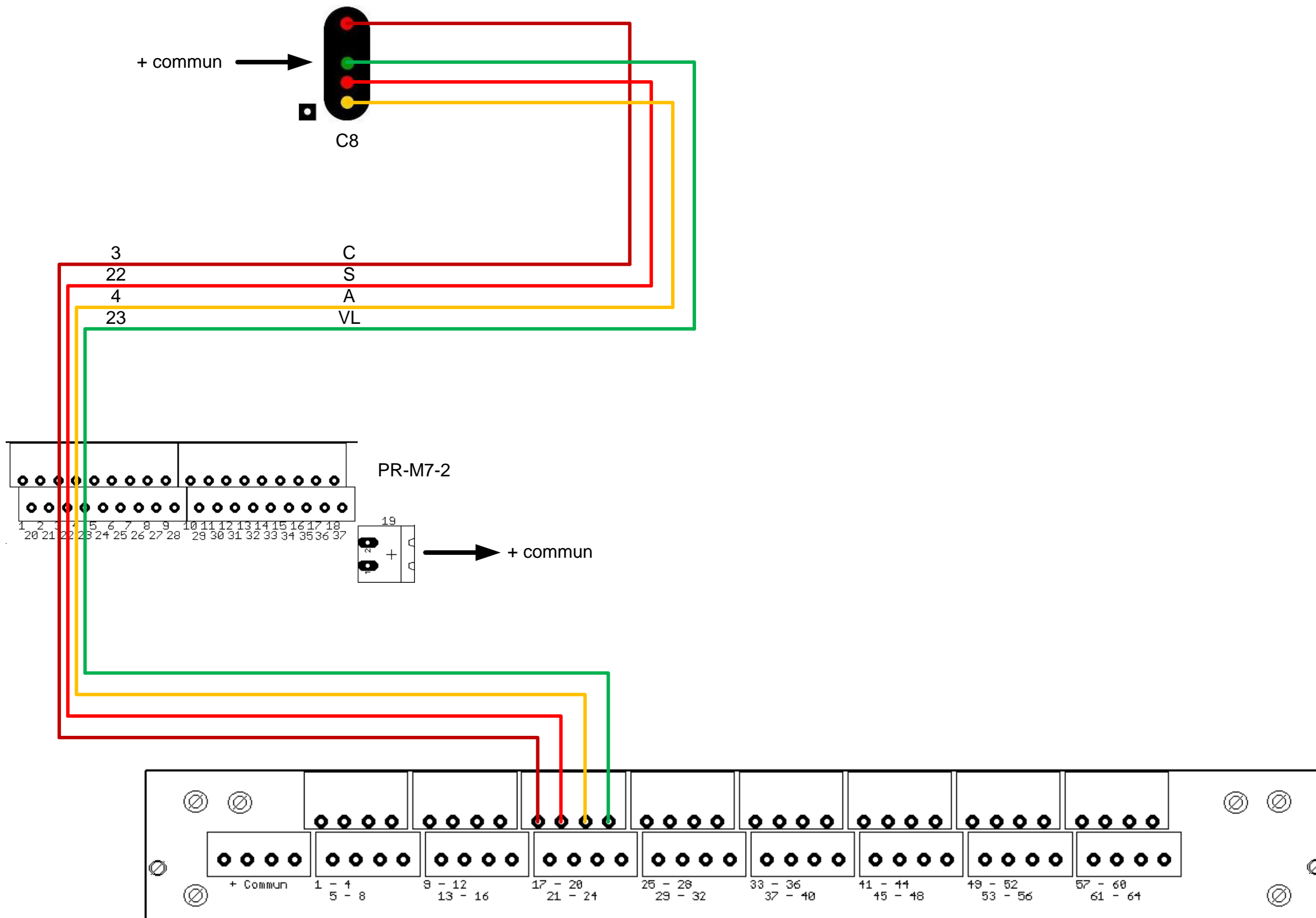


Ladybird – Réseau BOB-TEE 91

Signal C6

04/10/2022

Feuille : 2-01-05



Carte 64 sorties n° 1

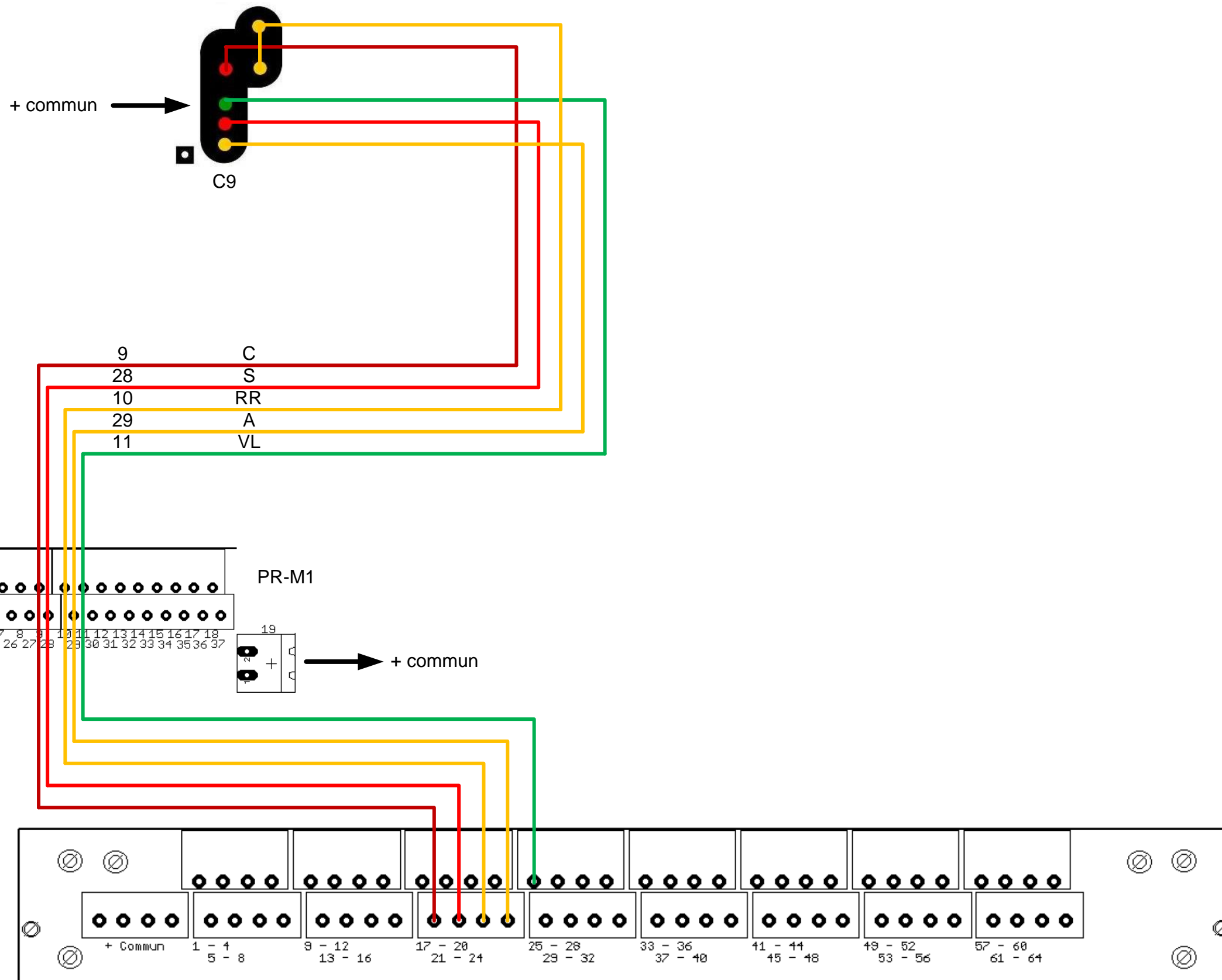


Ladybird – Réseau BOB-TEE 91

Signal C8

04/10/2022

Feuille : 2-01-06



Carte 64 sorties n° 1

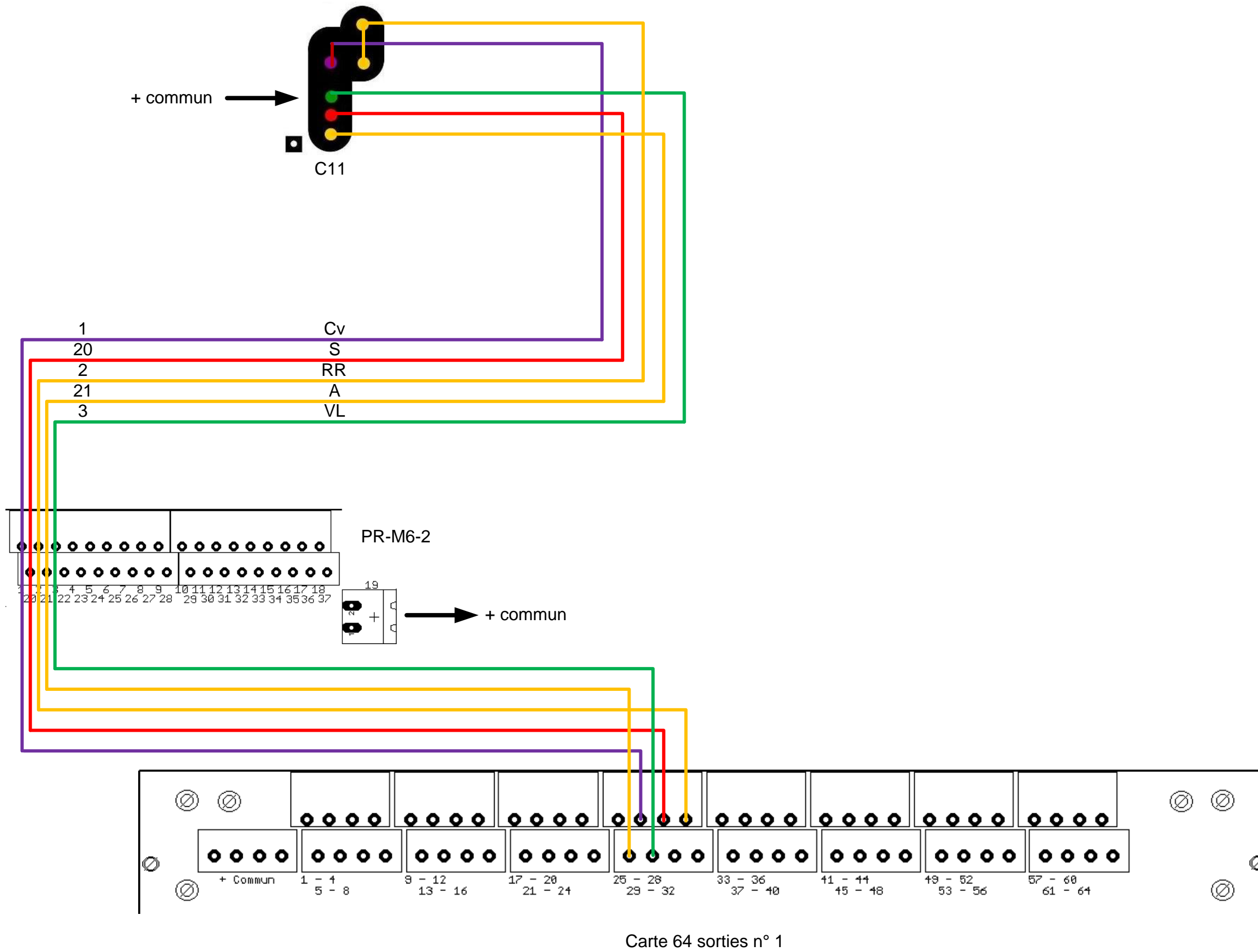


Ladybird – Réseau BOB-TEE 91

Signal C9

04/10/2022

Feuille : 2-01-07



Carte 64 sorties n° 1

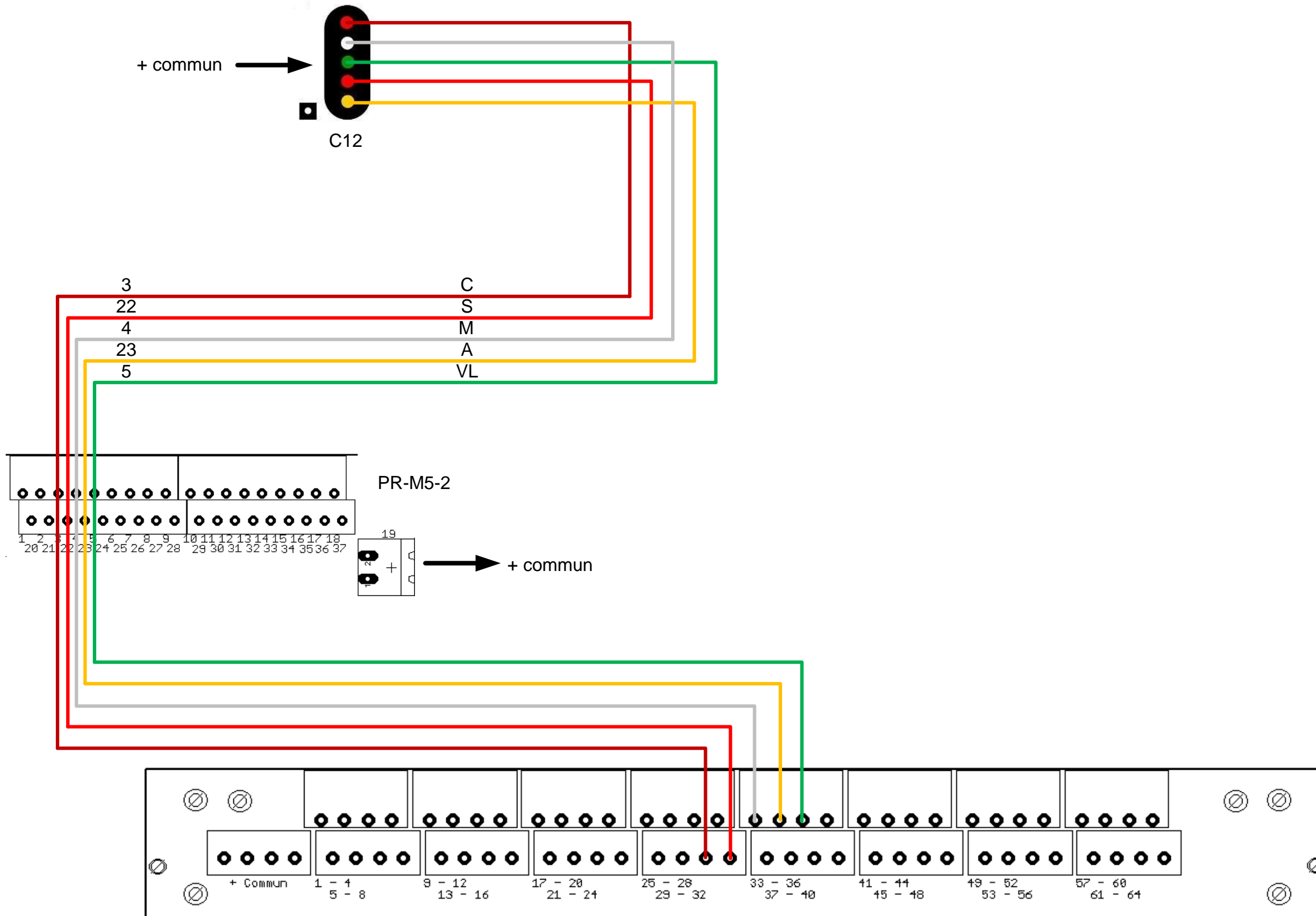


Ladybird – Réseau BOB-TEE 91

Signal C11

04/10/2022

Feuille : 2-01-08



Carte 64 sorties n° 1

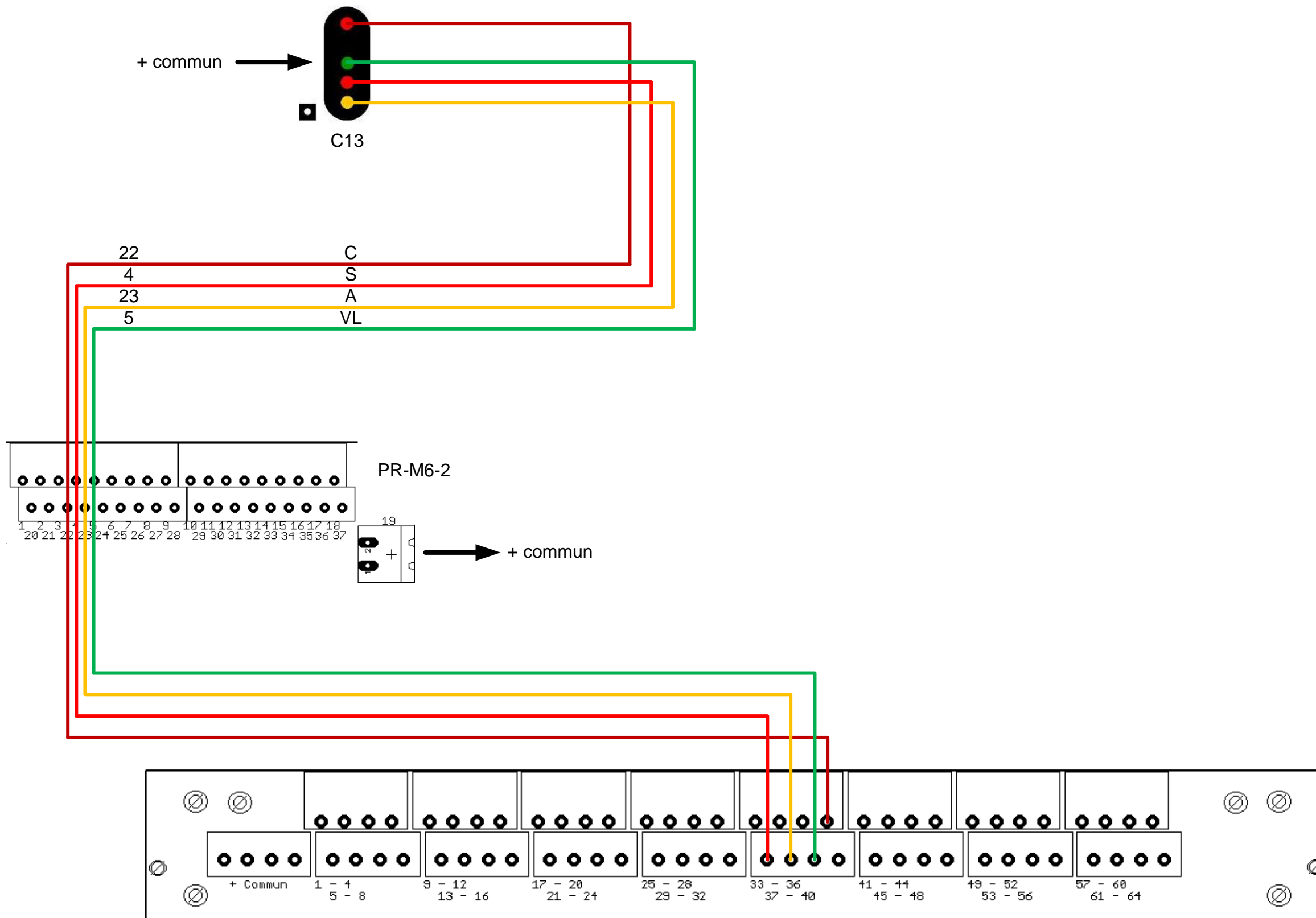


Ladybird – Réseau BOB-TEE 91

Signal C12

04/10/2022

Feuille : 2-01-09



Carte 64 sorties n° 1

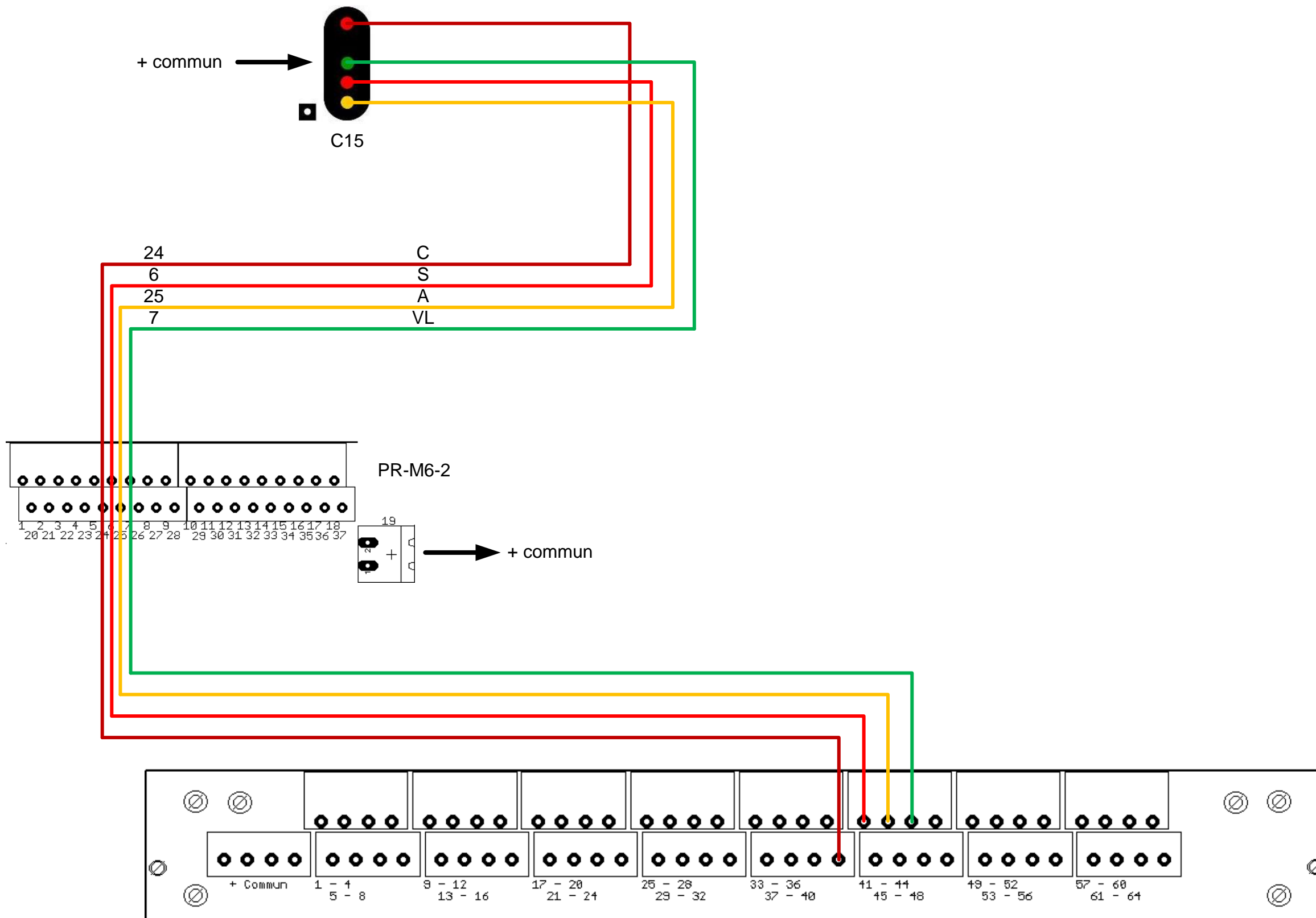


Ladybird – Réseau BOB-TEE 91

Signal C13

04/10/2022

Feuille : 2-01-10



Carte 64 sorties n° 1

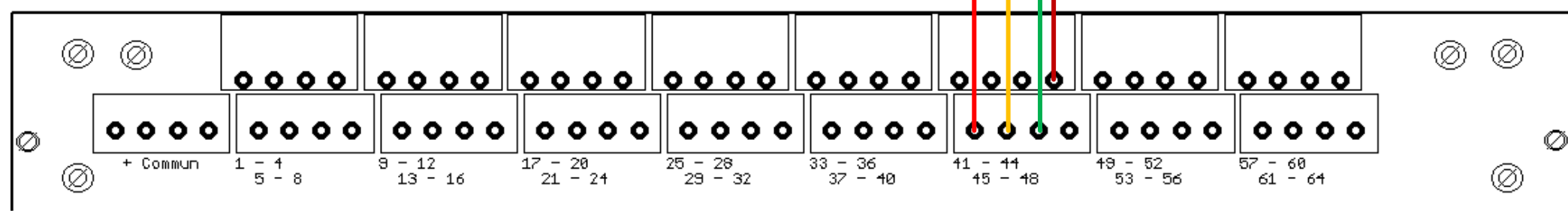
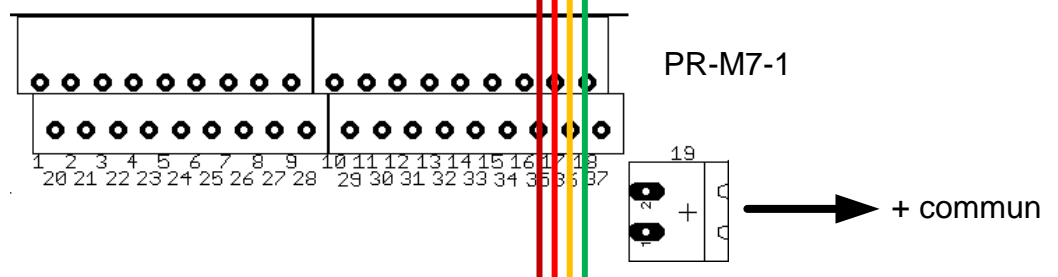
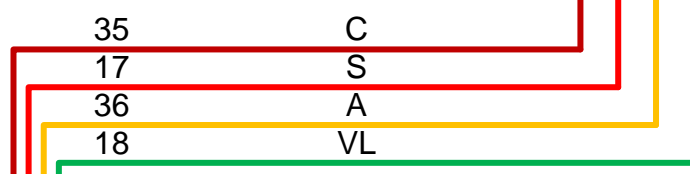
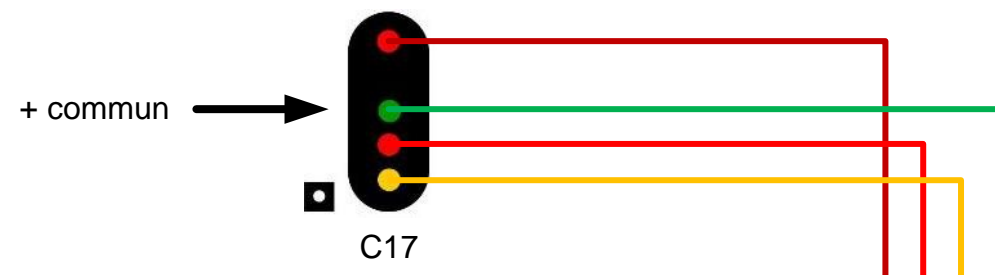


Ladybird – Réseau BOB-TEE 91

Signal C15

04/10/2022

Feuille : 2-01-11



Carte 64 sorties n° 1

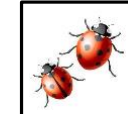
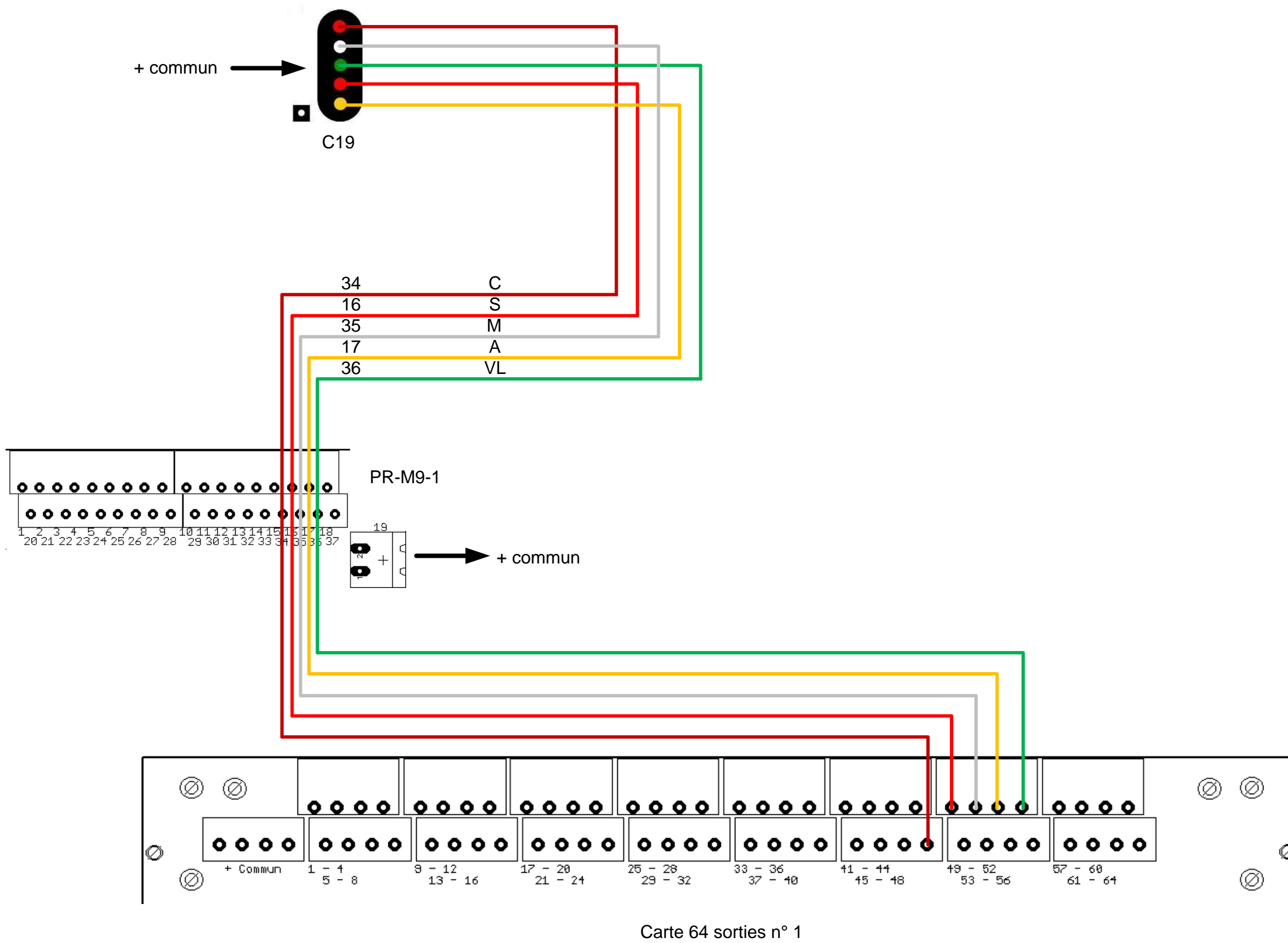


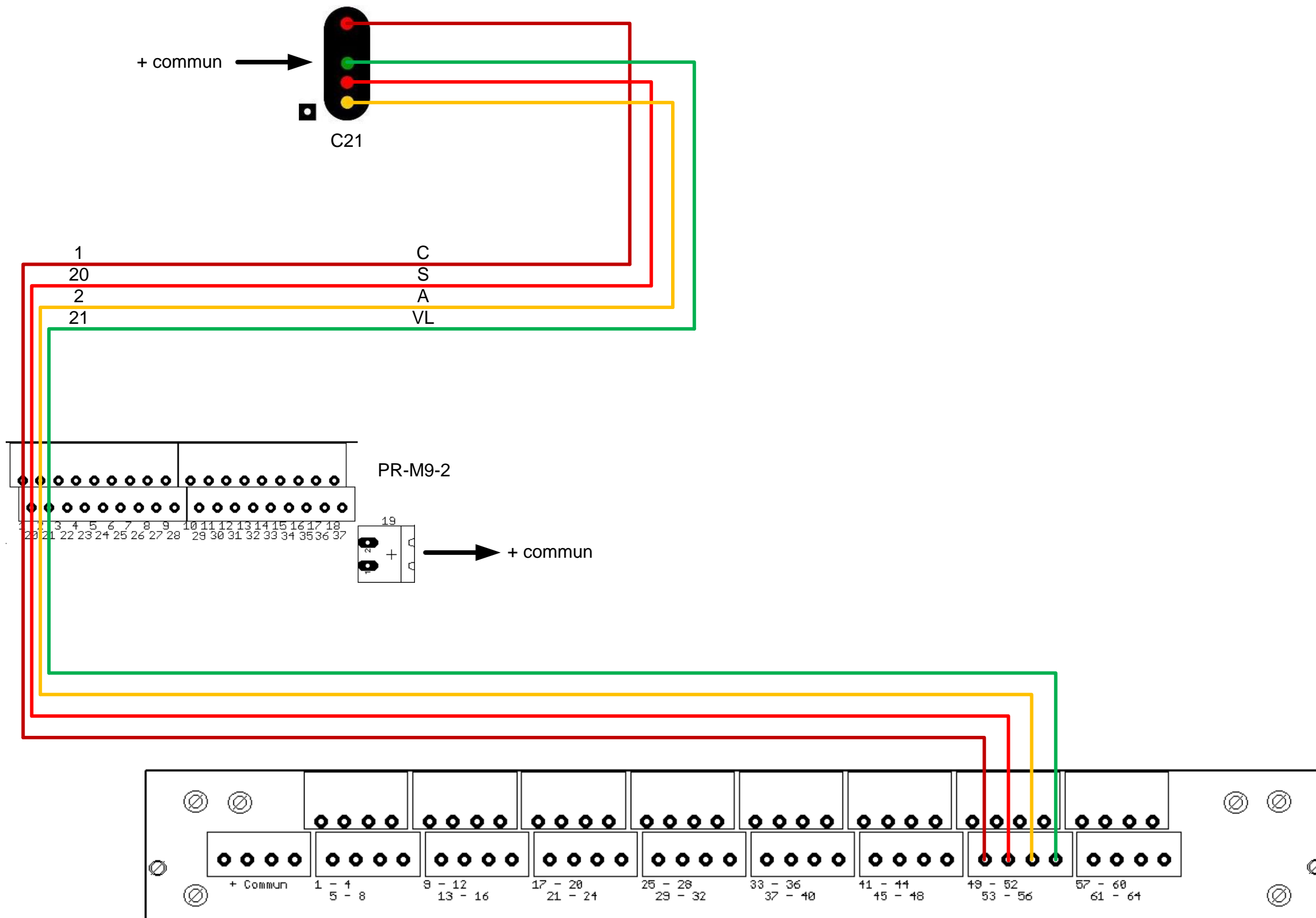
Ladybird – Réseau BOB-TEE 91

Signal C17

09/11/2022

Feuille : 2-01-12





Carte 64 sorties n° 1

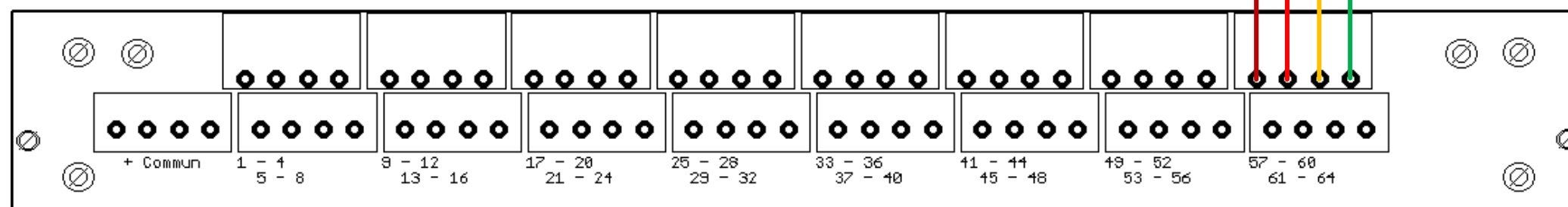
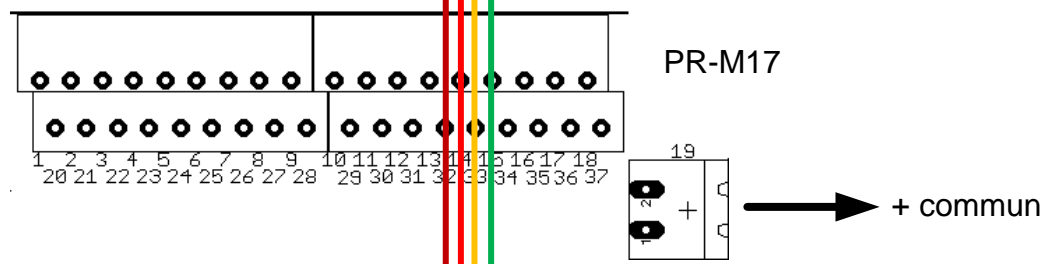
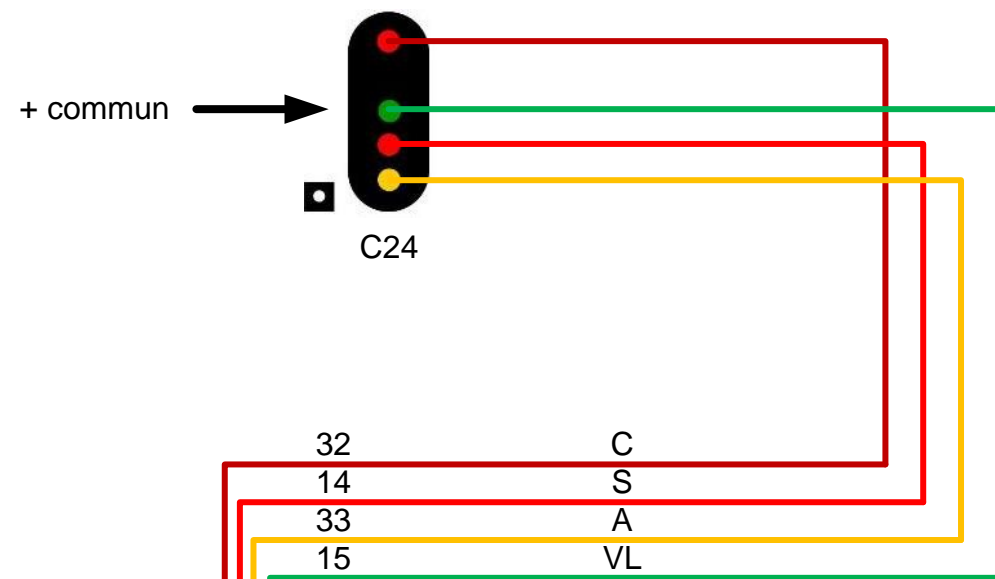


Ladybird – Réseau BOB-TEE 91

Signal C21

04/10/2022

Feuille : 2-01-14



Carte 64 sorties n° 1

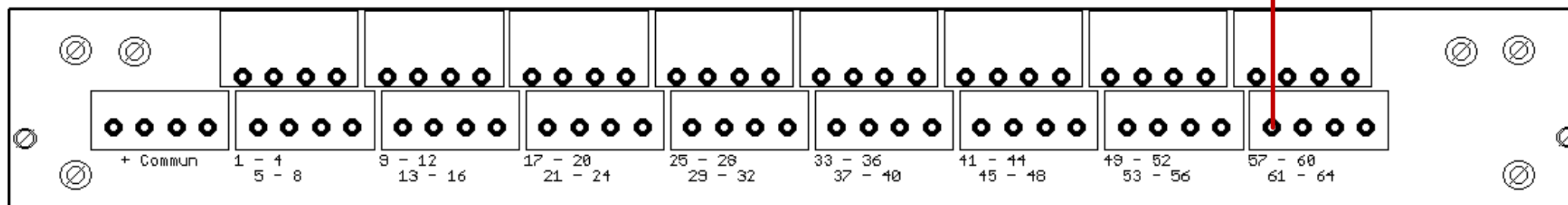
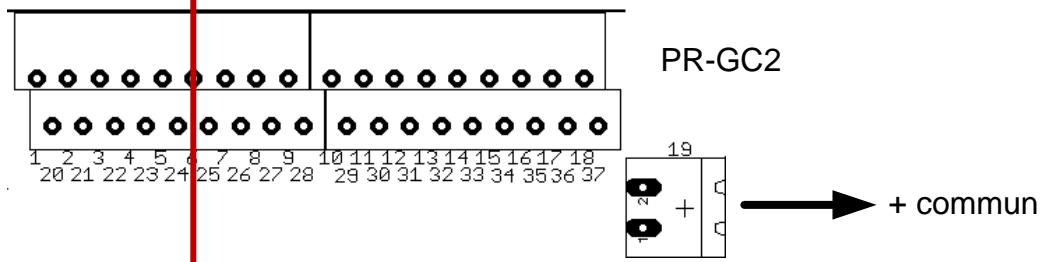
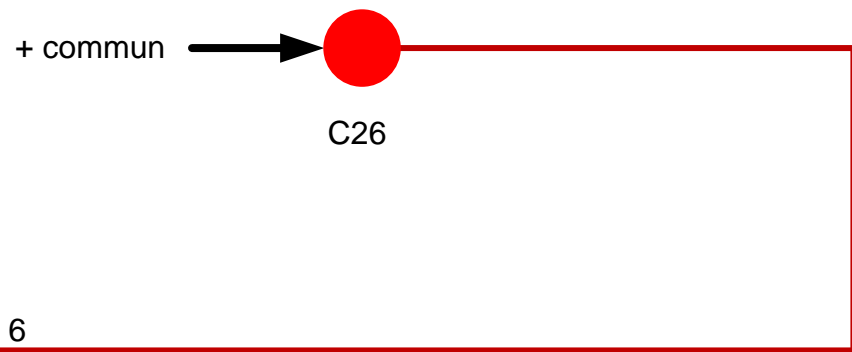


Ladybird – Réseau BOB-TEE 91

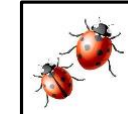
Signal C24

04/10/2022

Feuille : 2-01-15



Carte 64 sorties n° 1

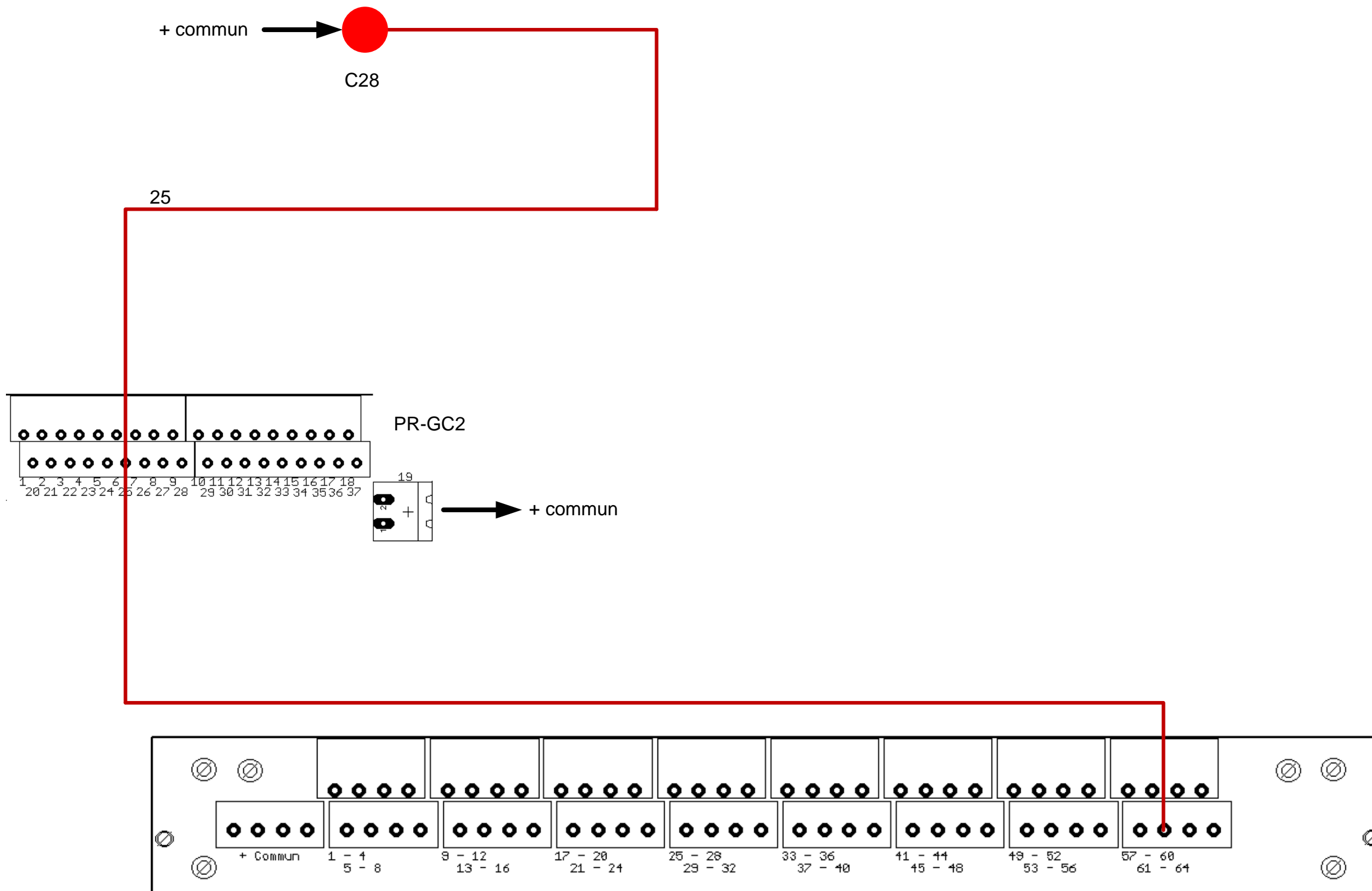


Ladybird – Réseau BOB-TEE 91

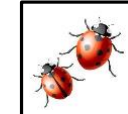
Signal C26

04/10/2022

Feuille : 2-01-16



Carte 64 sorties n° 1

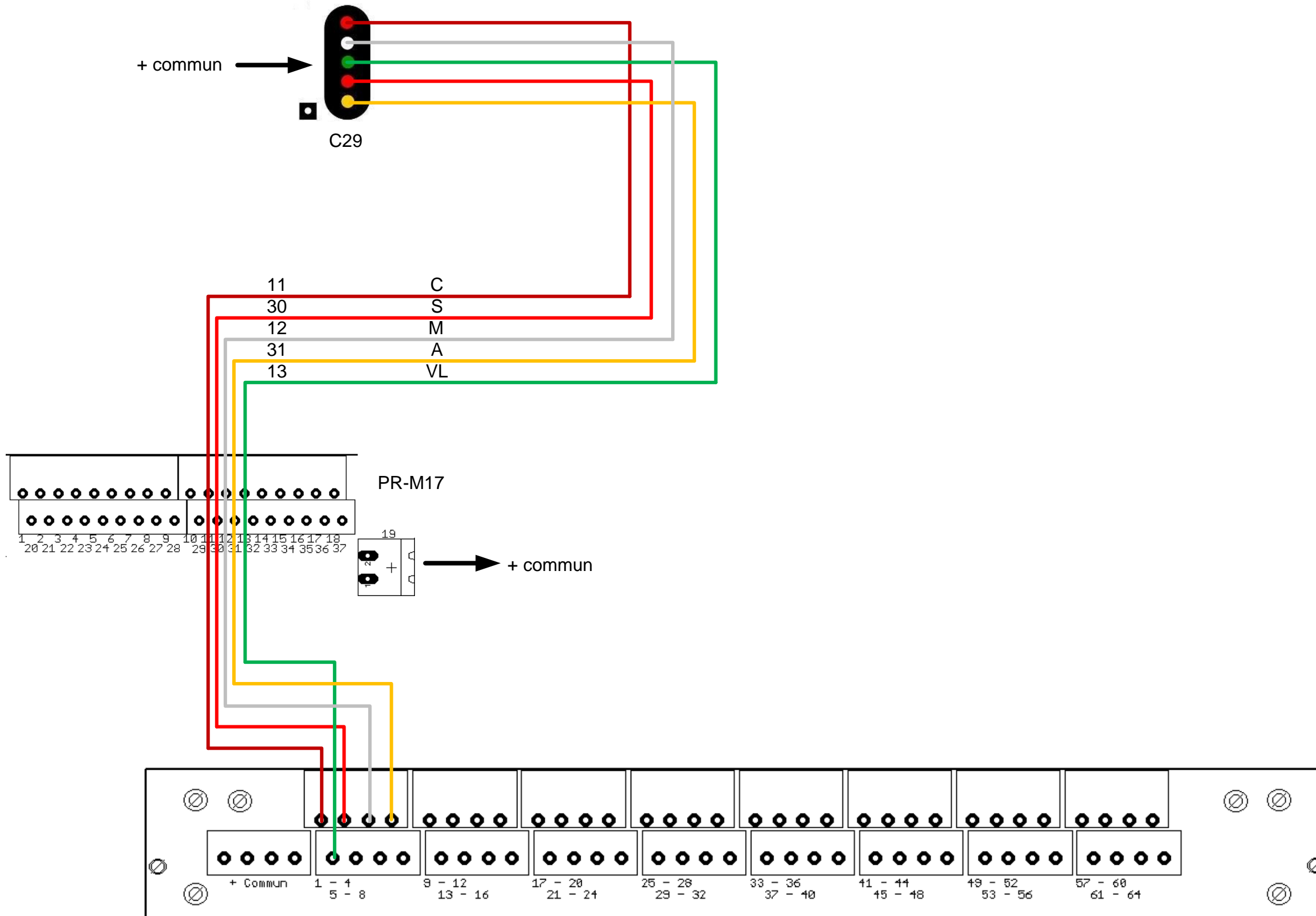


Ladybird – Réseau BOB-TEE 91

Signal C28

04/10/2022

Feuille : 2-01-17



Carte 64 sorties n° 2

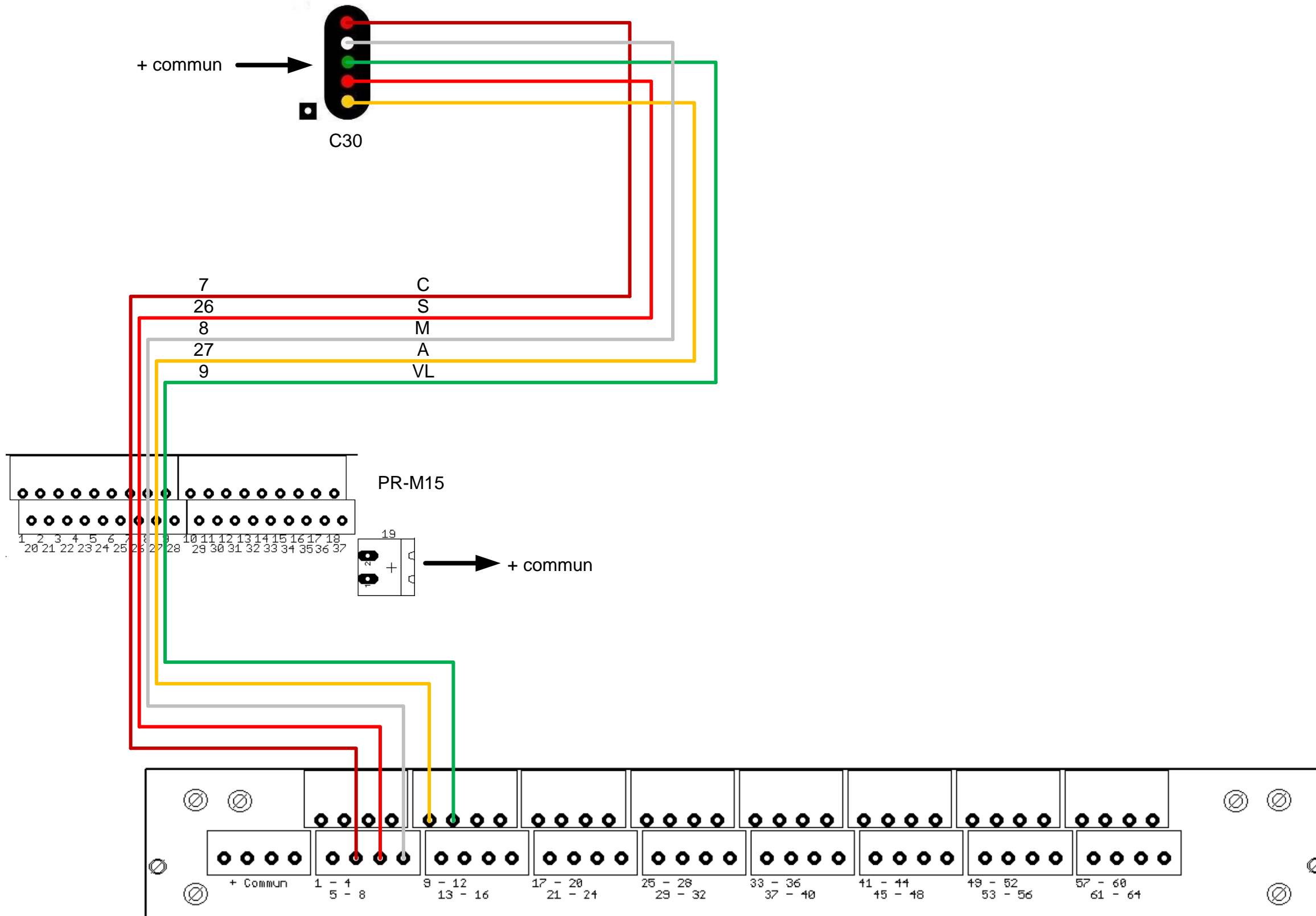


Ladybird – Réseau BOB-TEE 91

Signal C29

04/10/2022

Feuille : 2-02-01



Carte 64 sorties n° 2

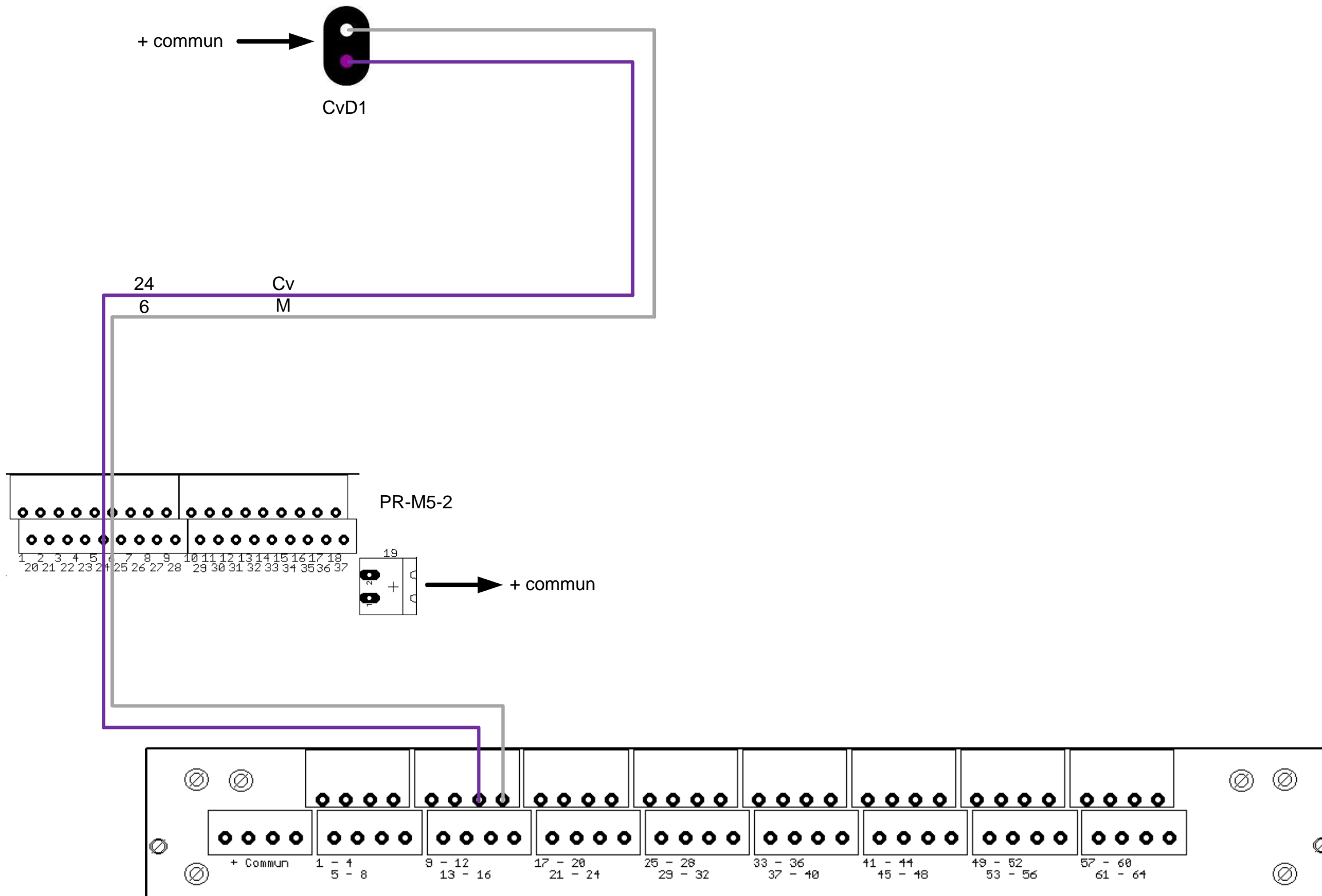


Ladybird – Réseau BOB-TEE 91

Signal C30

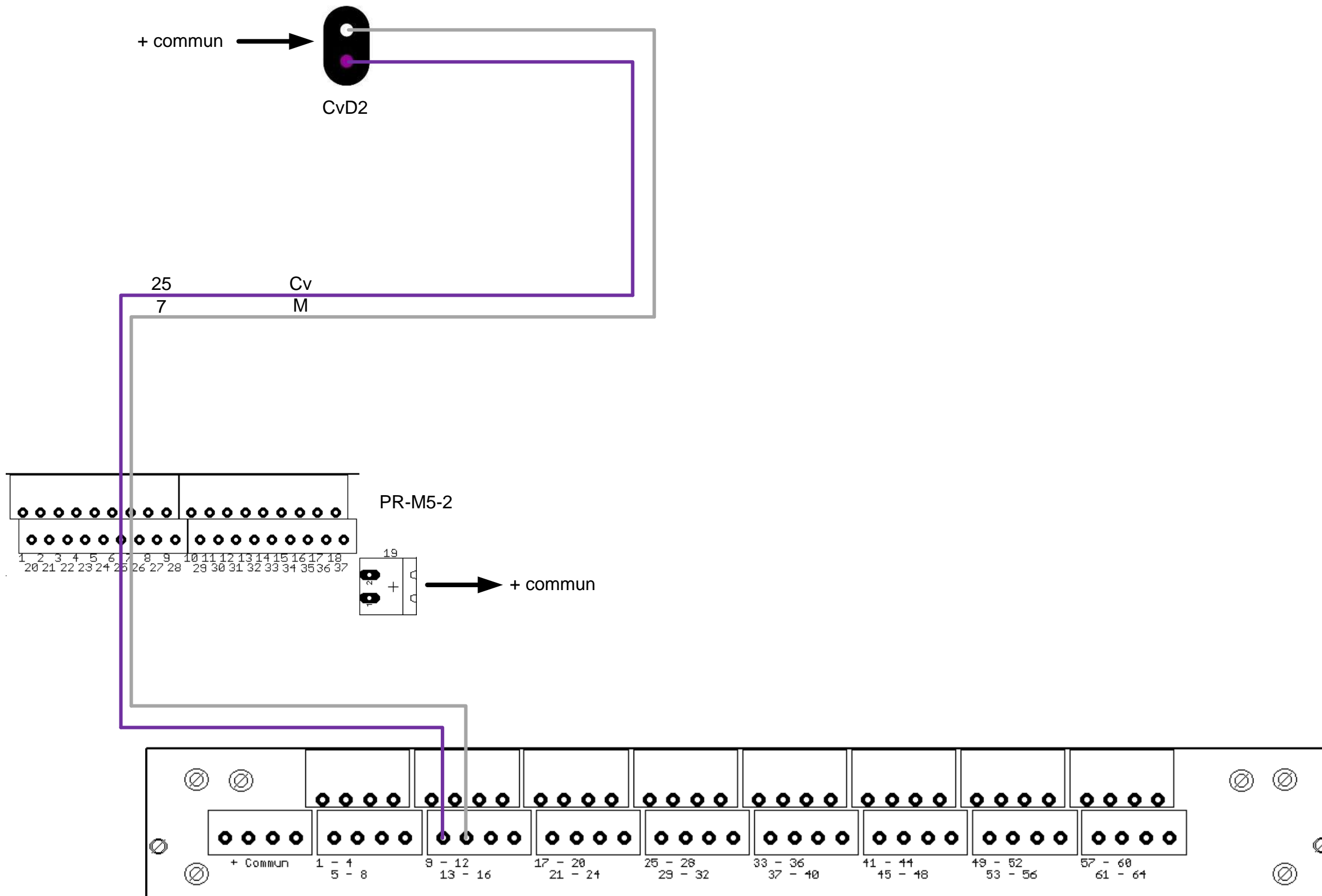
04/10/2022

Feuille : 2-02-02



Carte 64 sorties n° 2





Carte 64 sorties n° 2

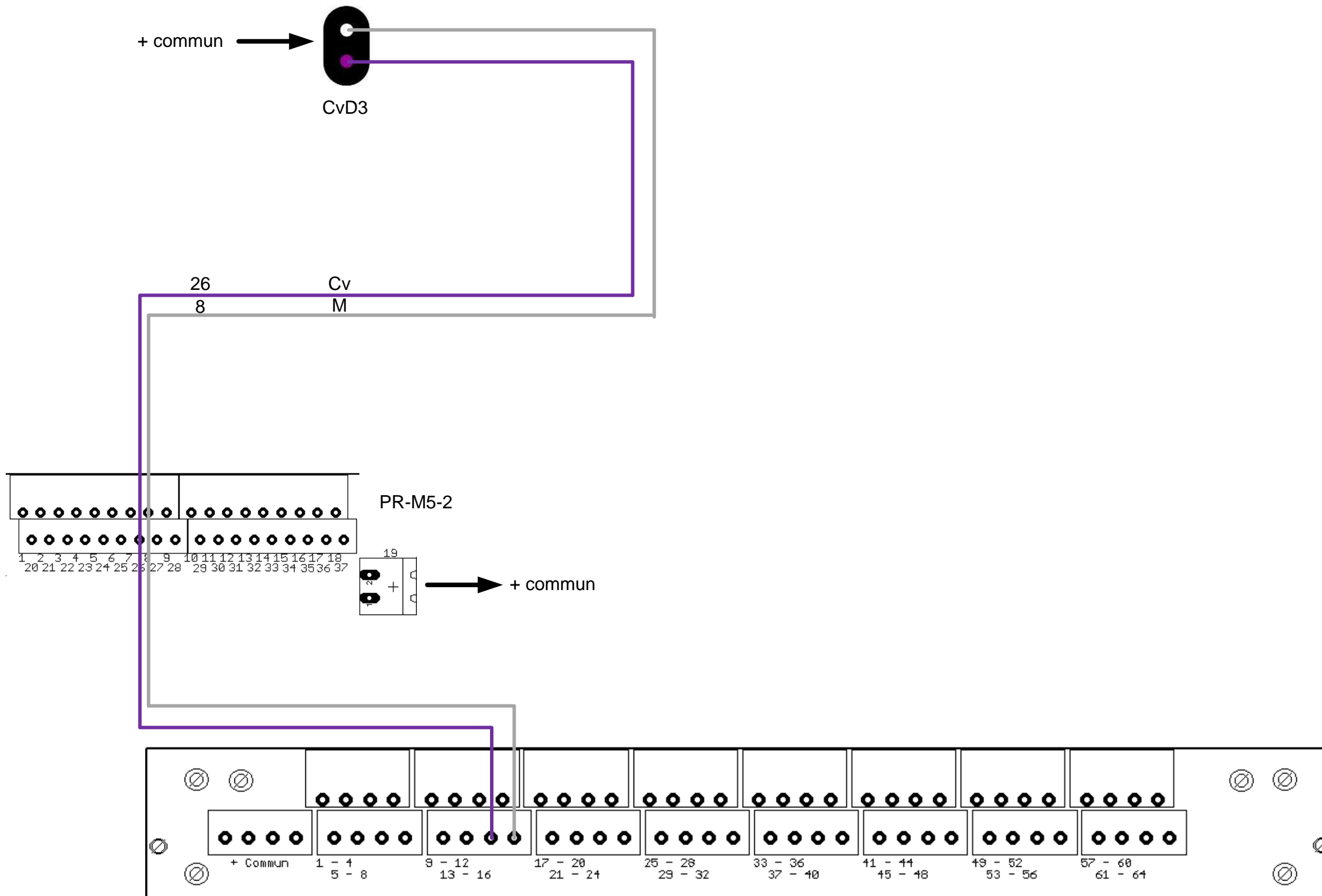


Ladybird – Réseau BOB-TEE 91

Signal CvD2

10/04/2022

Feuille : 2-02-04



Carte 64 sorties n° 2

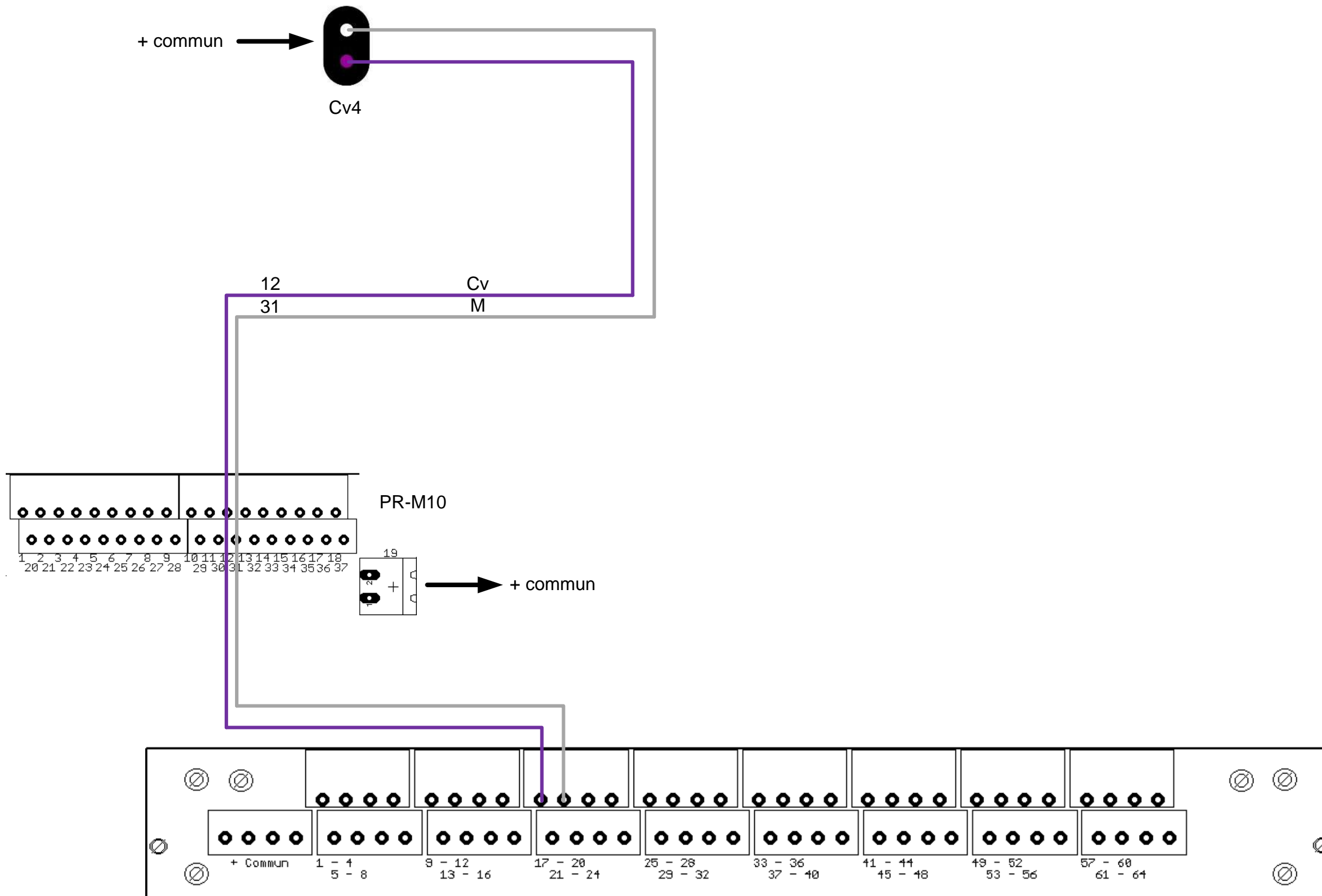


Ladybird – Réseau BOB-TEE 91

Signal CvD3

10/04/2022

Feuille : 2-02-05



Carte 64 sorties n° 2

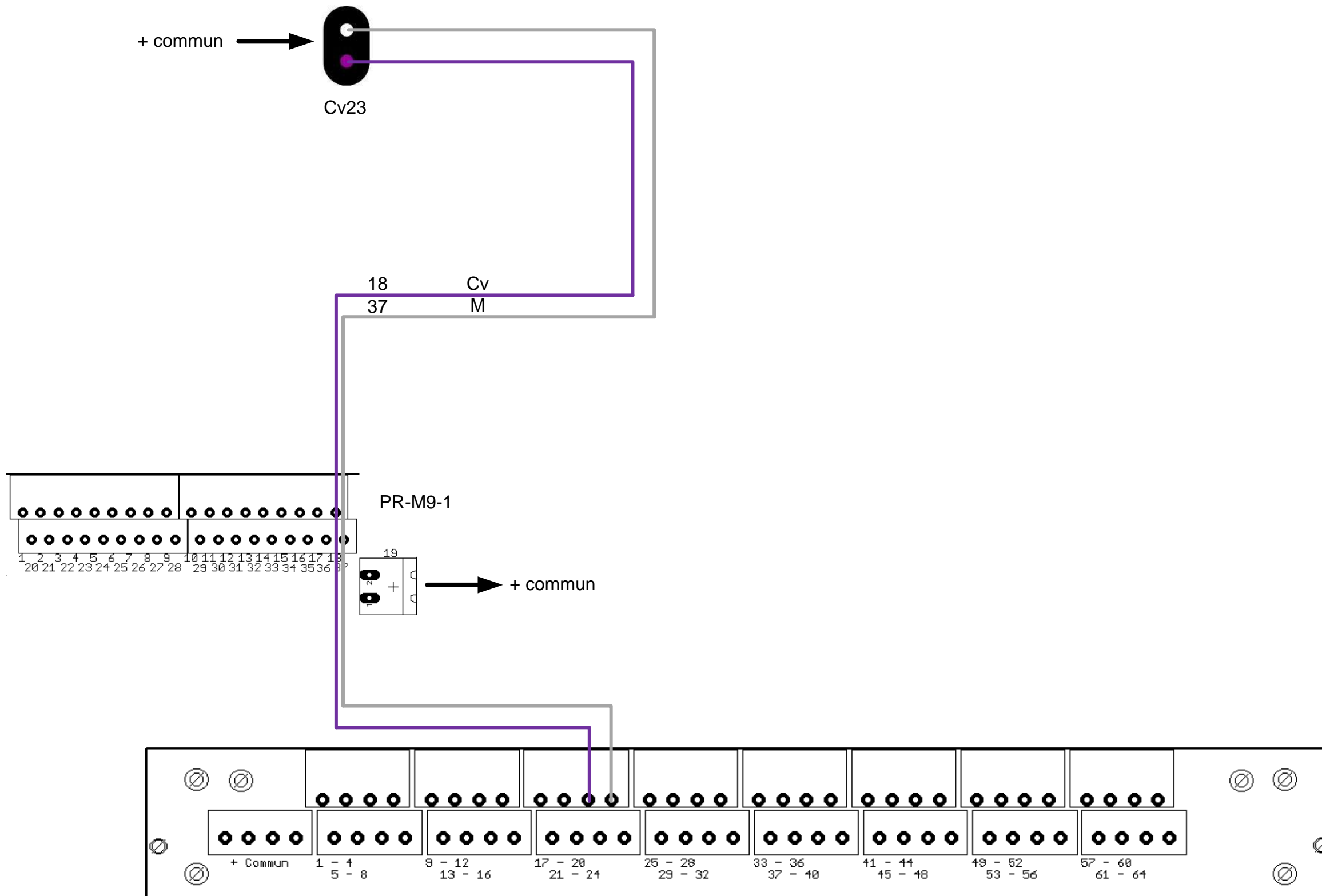


Ladybird – Réseau BOB-TEE 91

Signal Cv4

10/04/2022

Feuille : 2-02-06



Carte 64 sorties n° 2

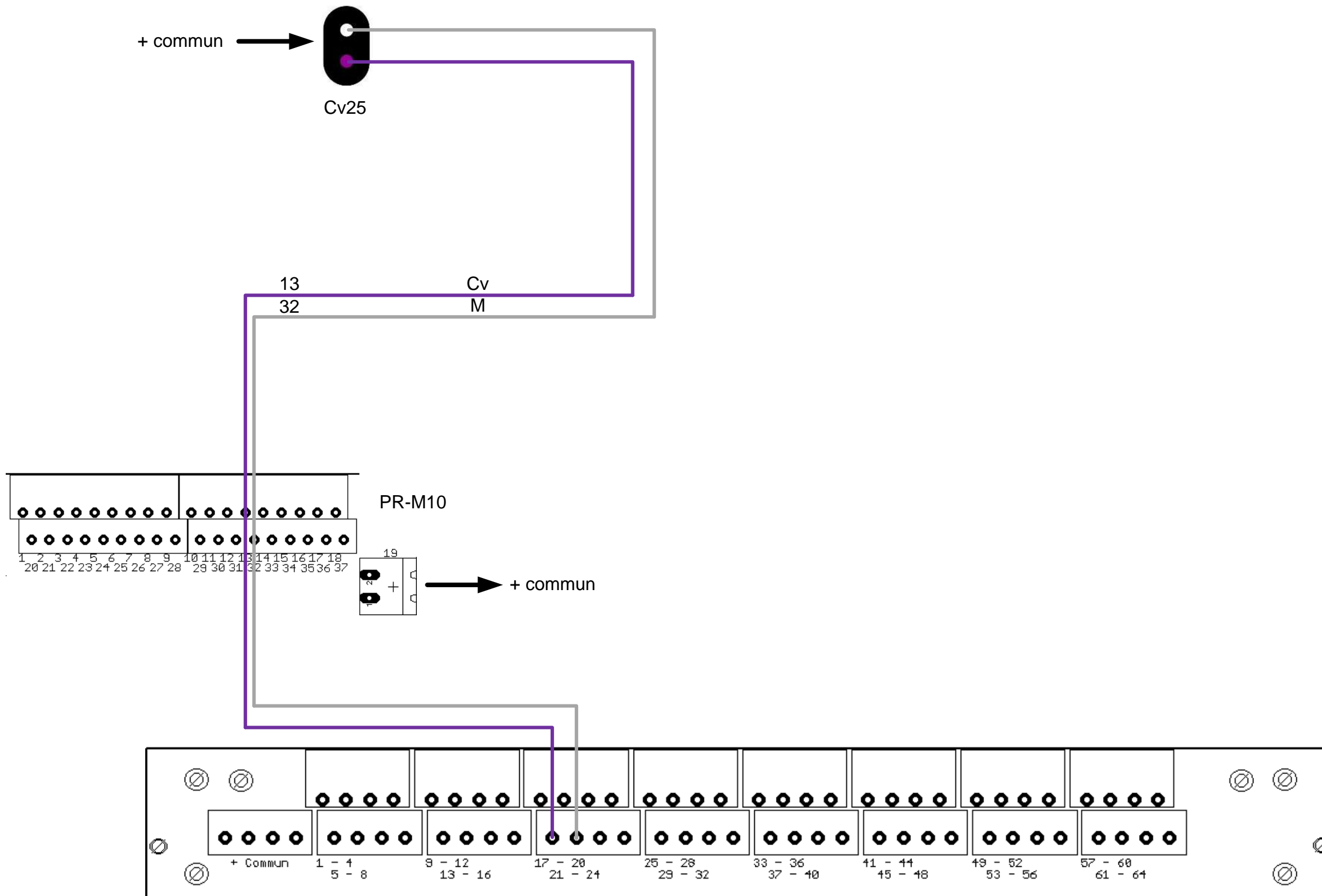


Ladybird – Réseau BOB-TEE 91

Signal Cv23

10/04/2022

Feuille : 2-02-07



Carte 64 sorties n° 2

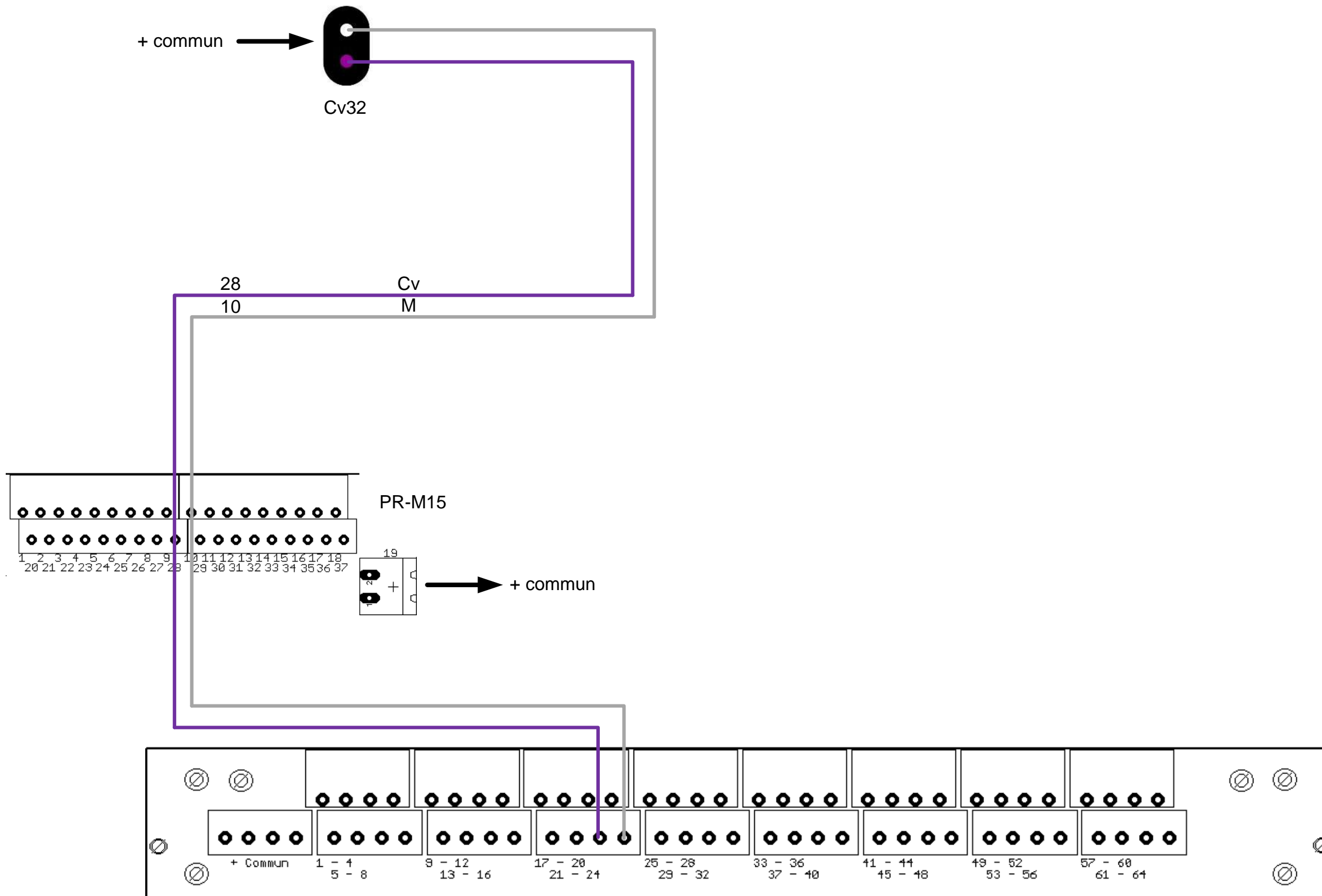


Ladybird – Réseau BOB-TEE 91

Signal Cv25

10/04/2022

Feuille : 2-02-08



Carte 64 sorties n° 2

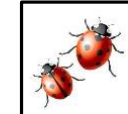
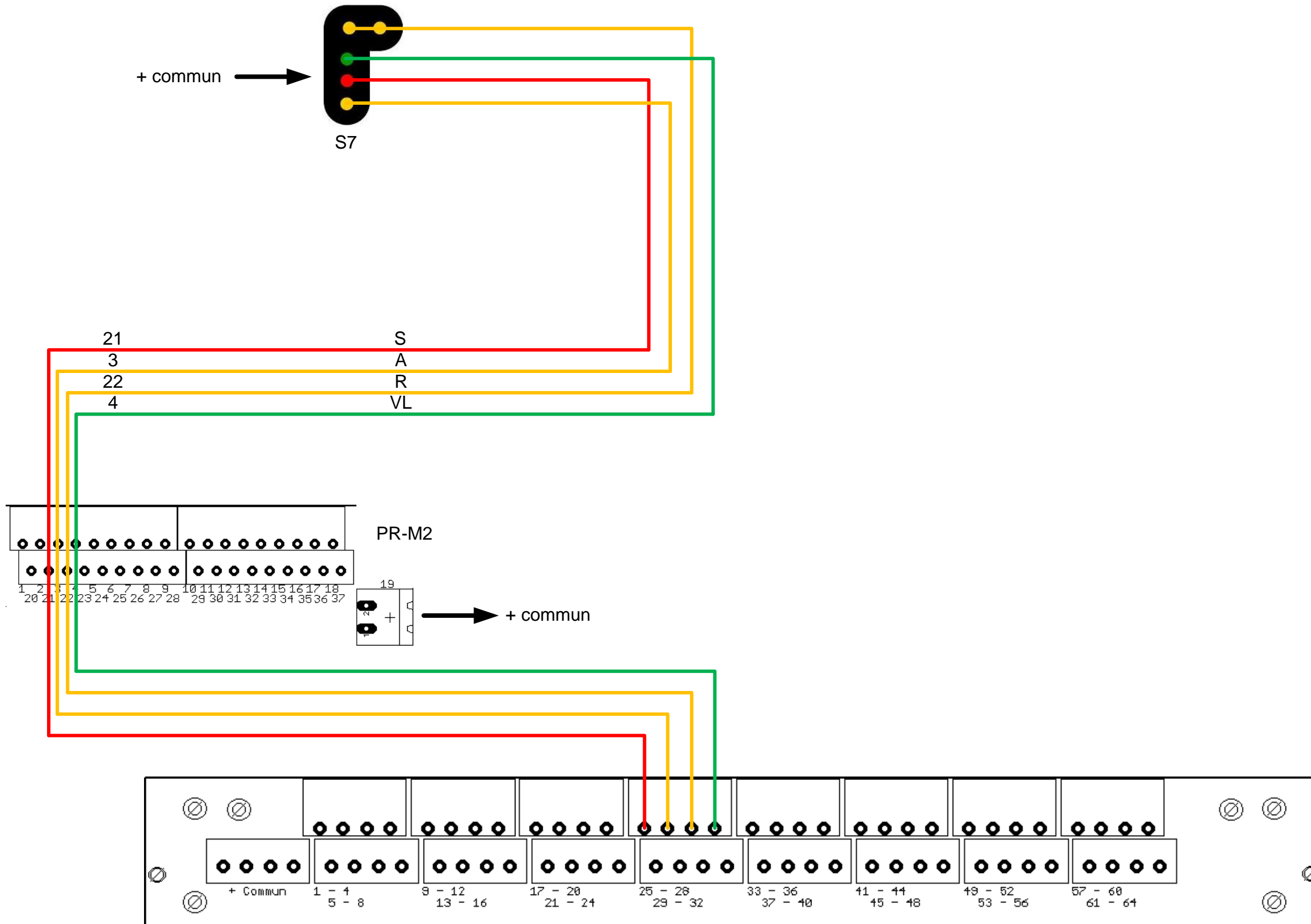


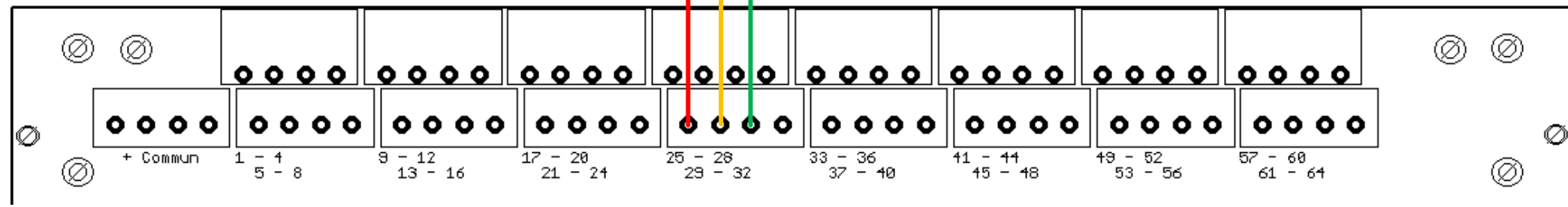
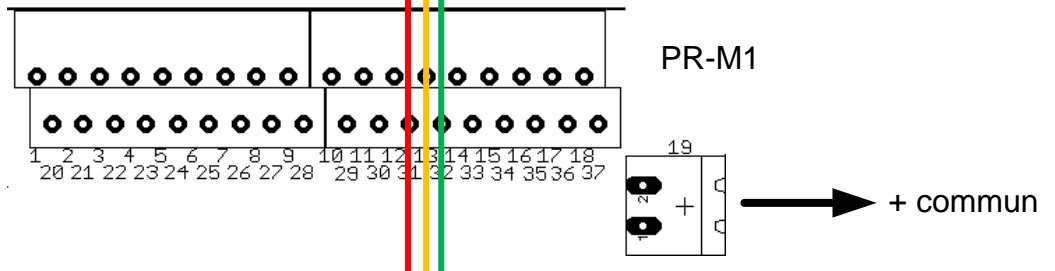
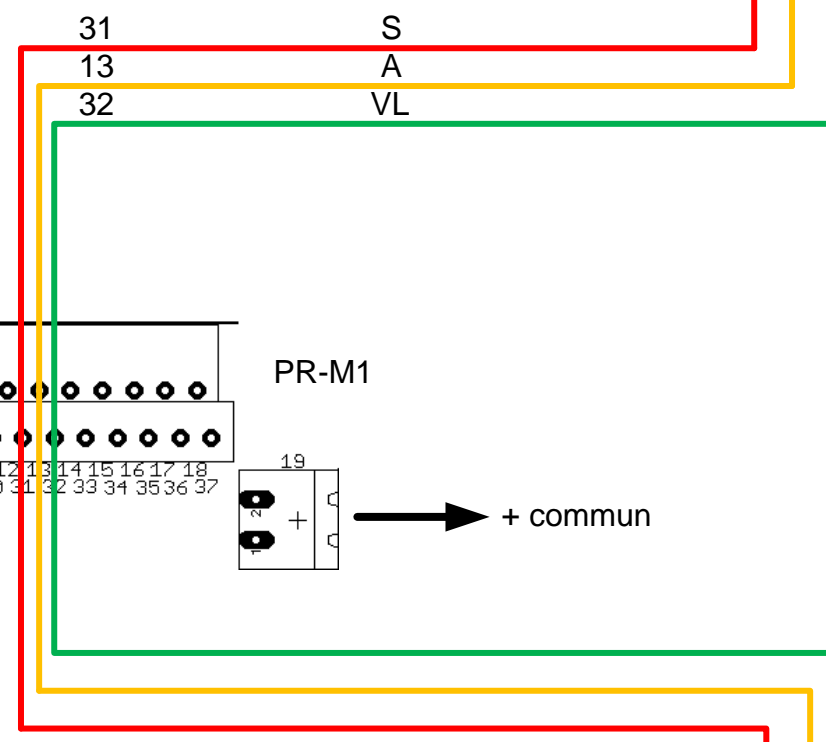
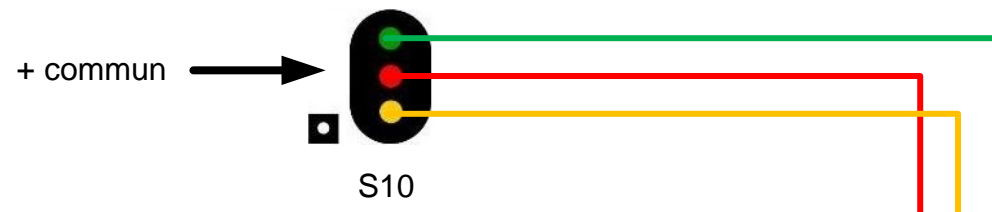
Ladybird – Réseau BOB-TEE 91

Signal Cv32

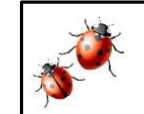
10/04/2022

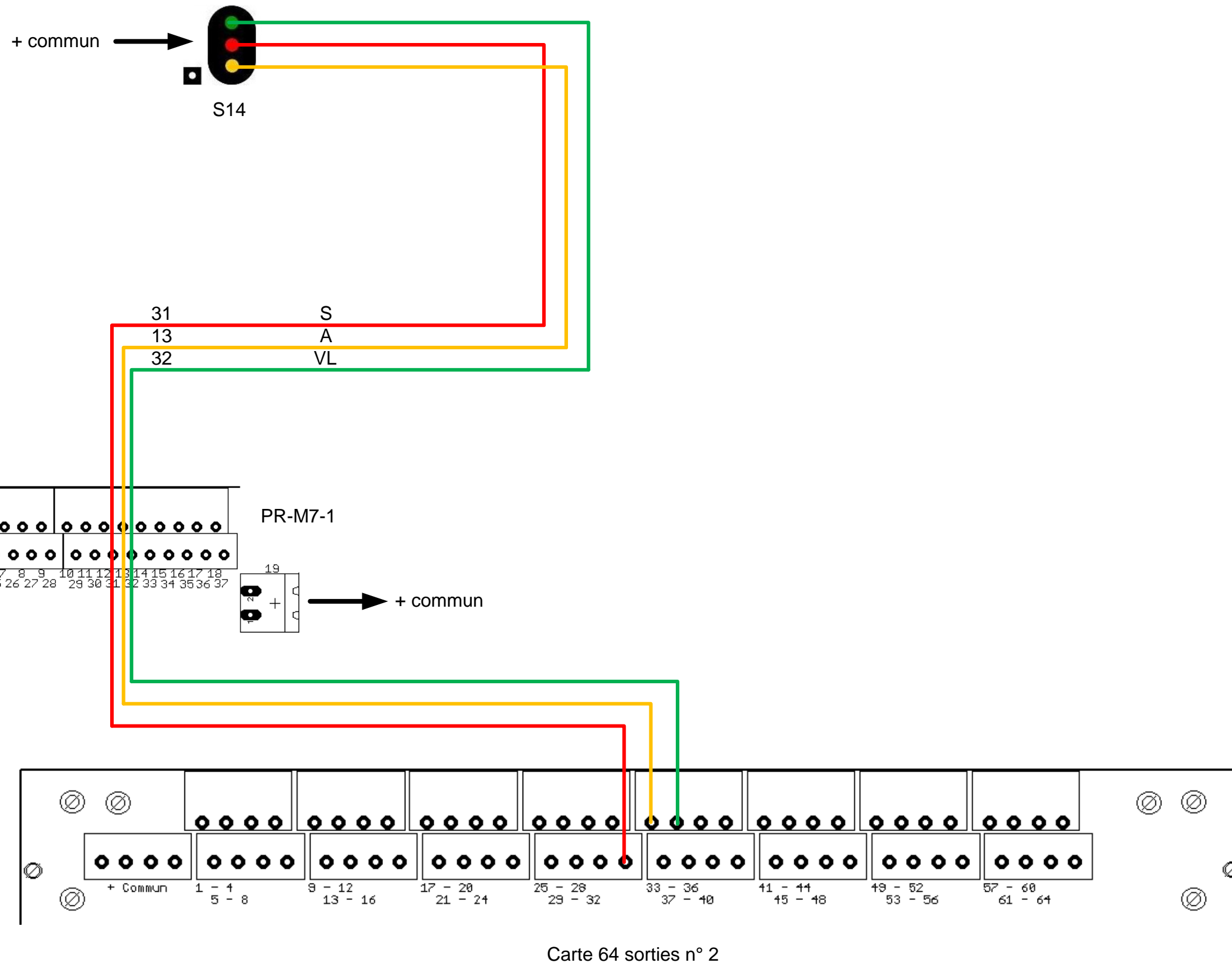
Feuille : 2-02-09

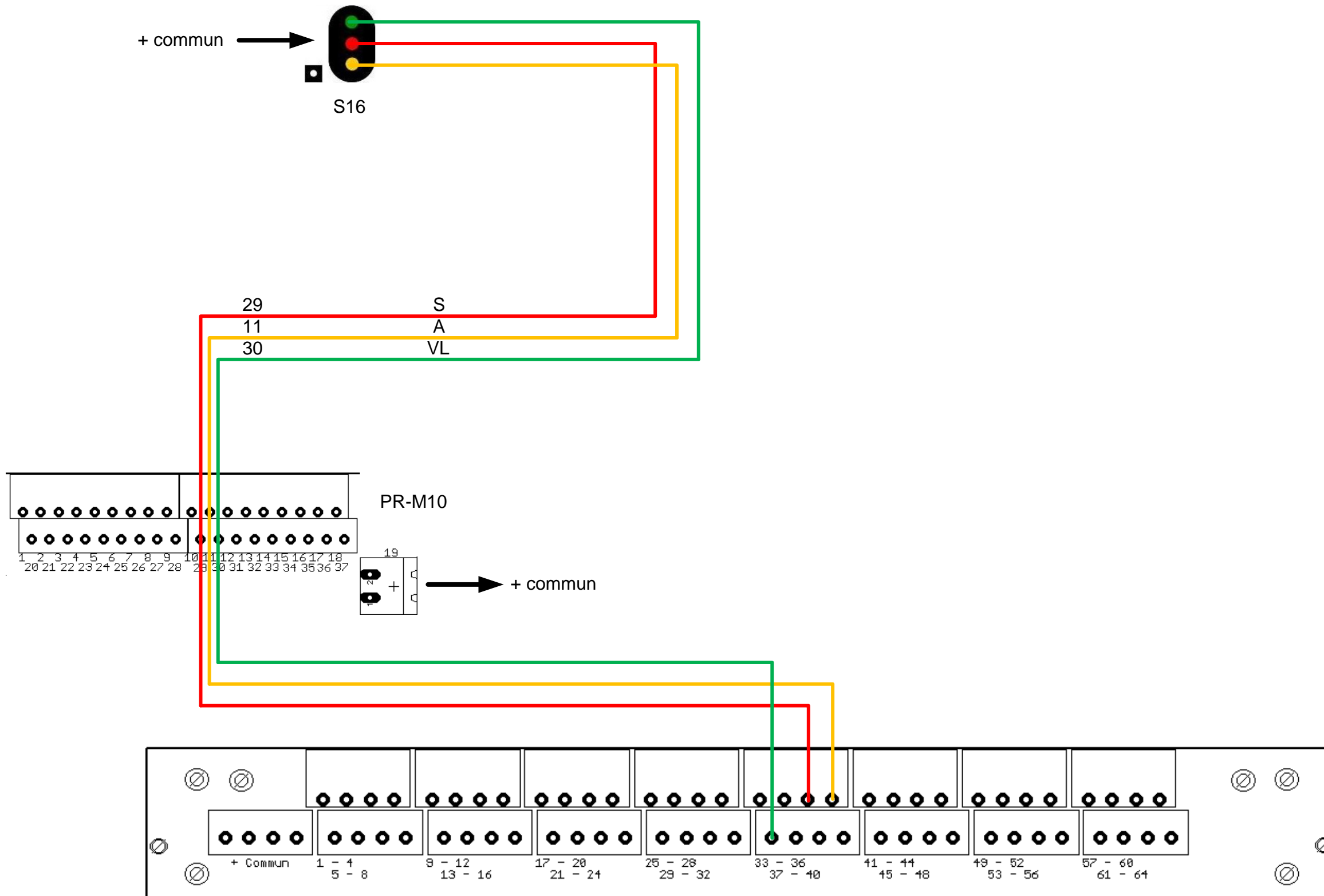




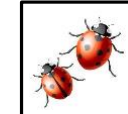
Carte 64 sorties n° 2







Carte 64 sorties n° 2

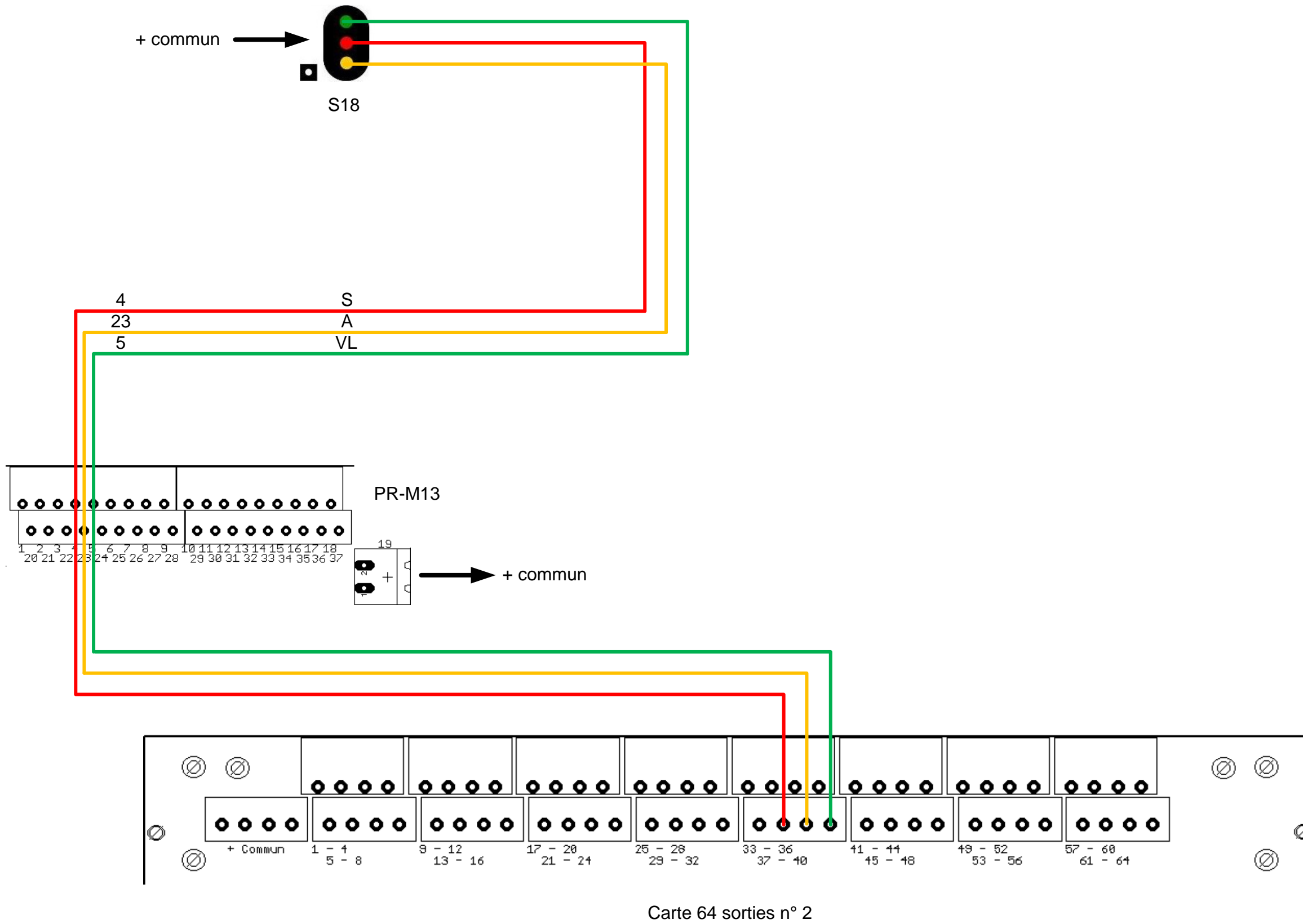


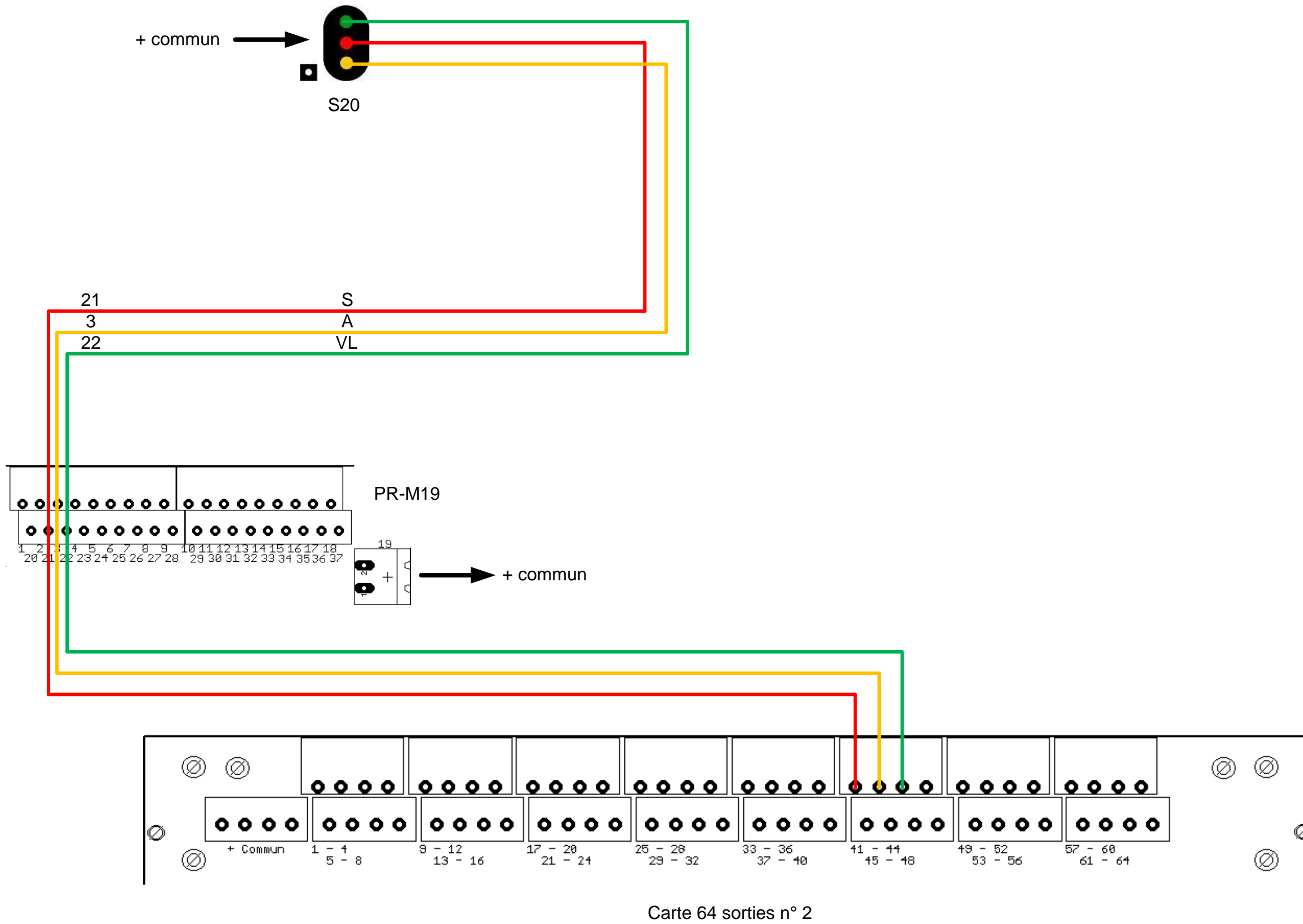
Ladybird – Réseau BOB-TEE 91

Signal S16

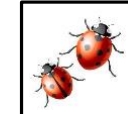
04/10/2022

Feuille : 2-02-13





Carte 64 sorties n° 2

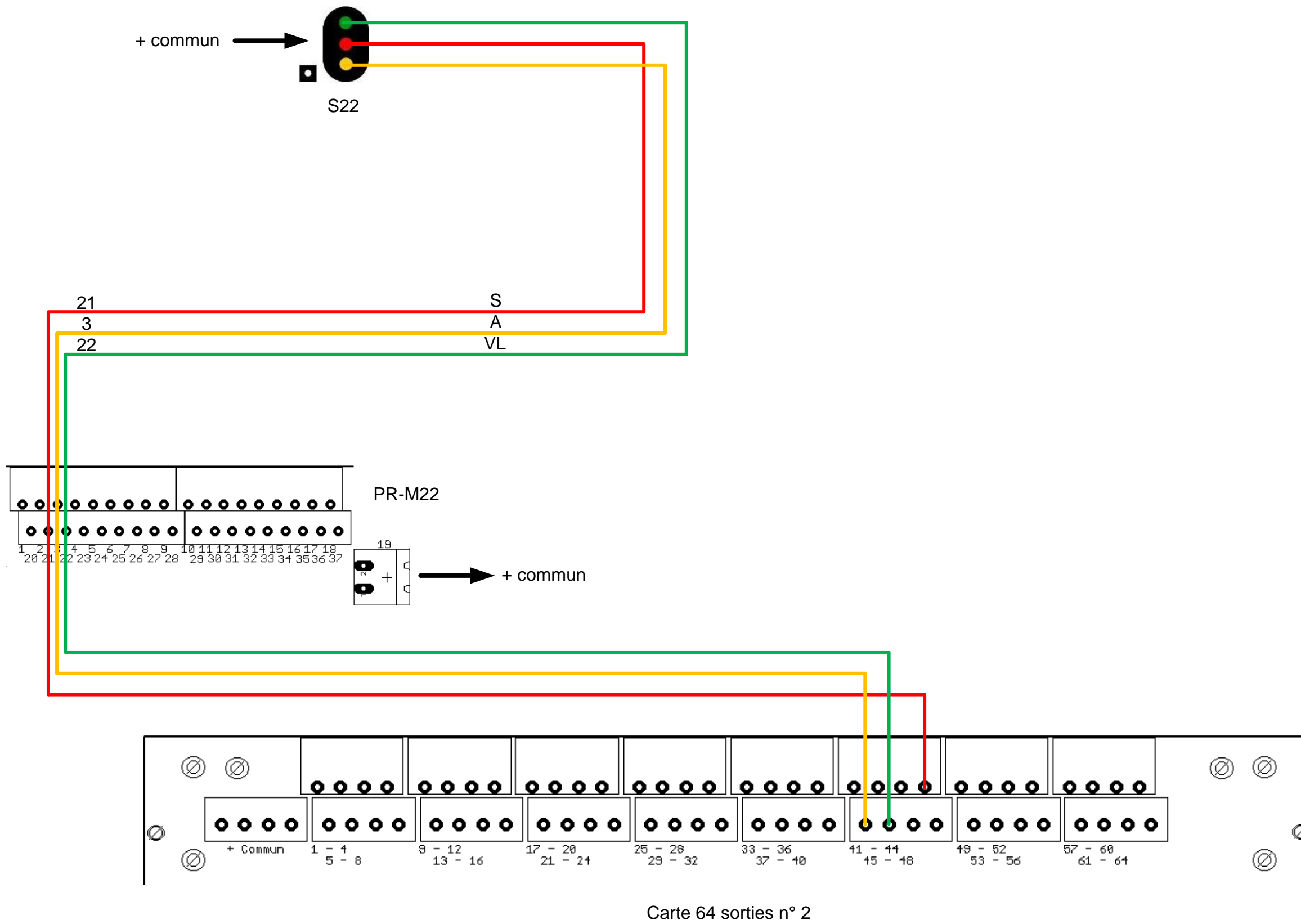


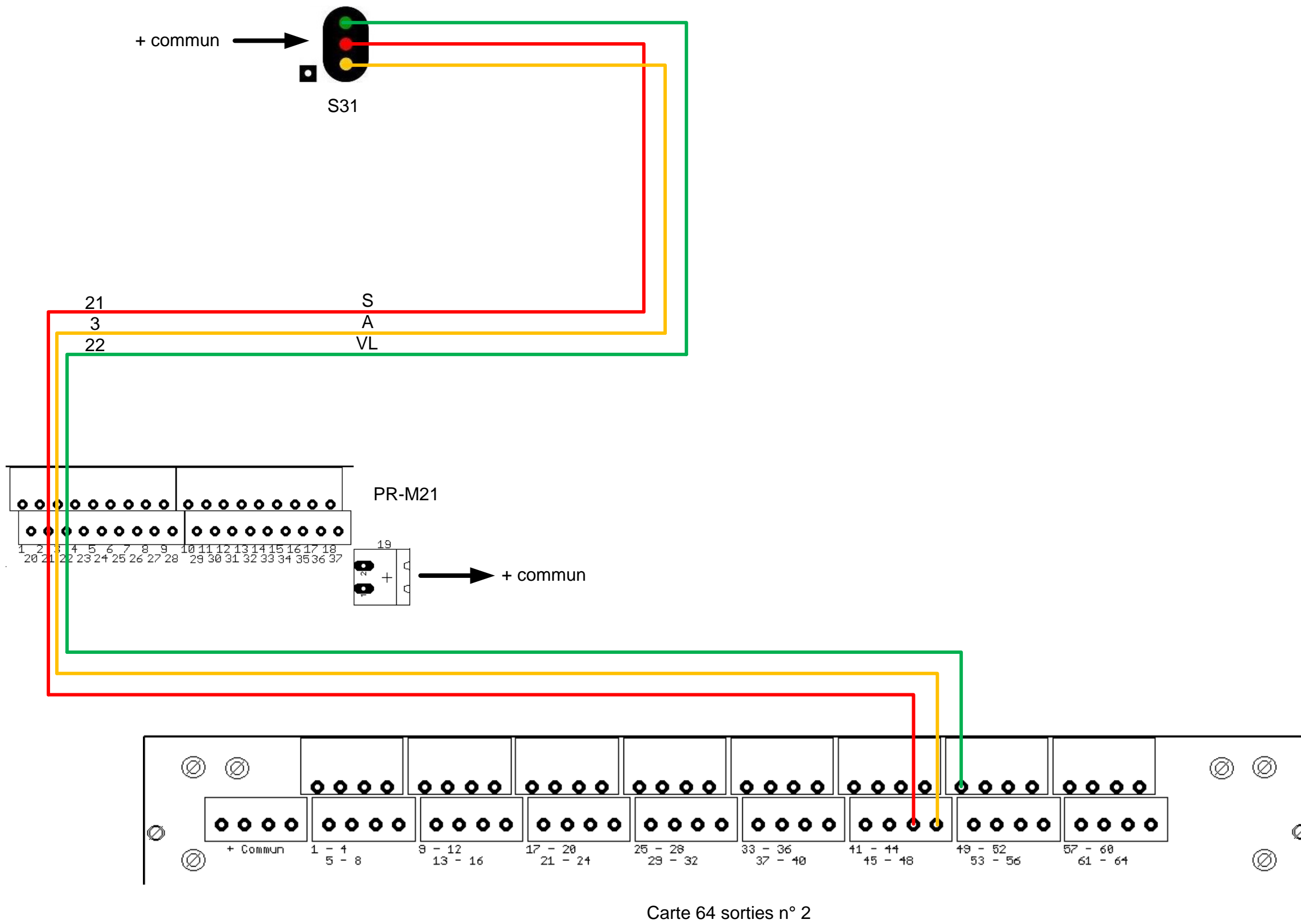
Ladybird – Réseau BOB-TEE 91

Signal S20

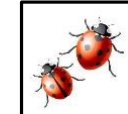
04/10/2022

Feuille : 2-02-15





Carte 64 sorties n° 2

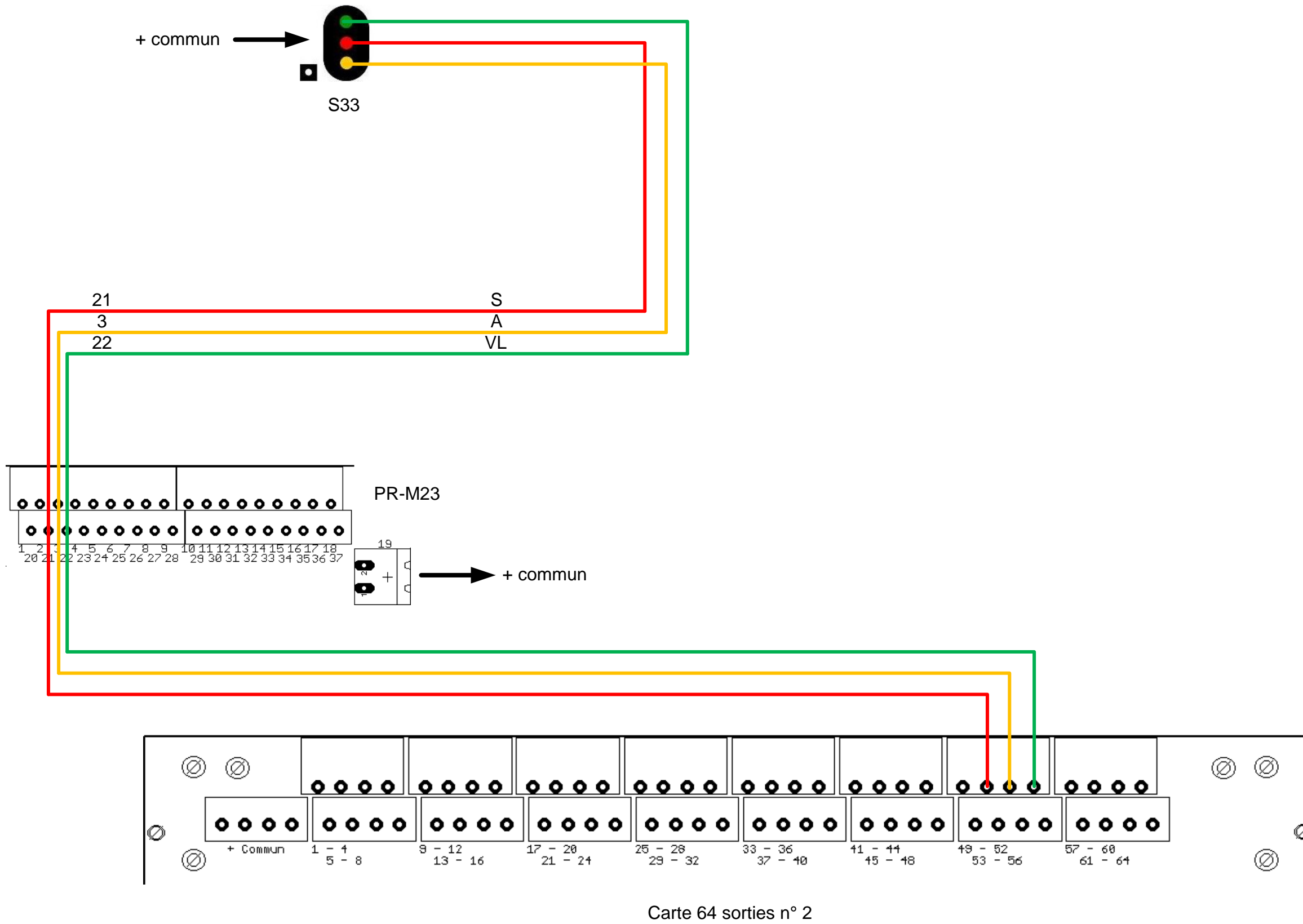


Ladybird – Réseau BOB-TEE 91

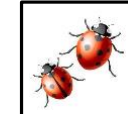
Signal S31

04/10/2022

Feuille : 2-02-17



Carte 64 sorties n° 2

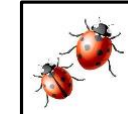
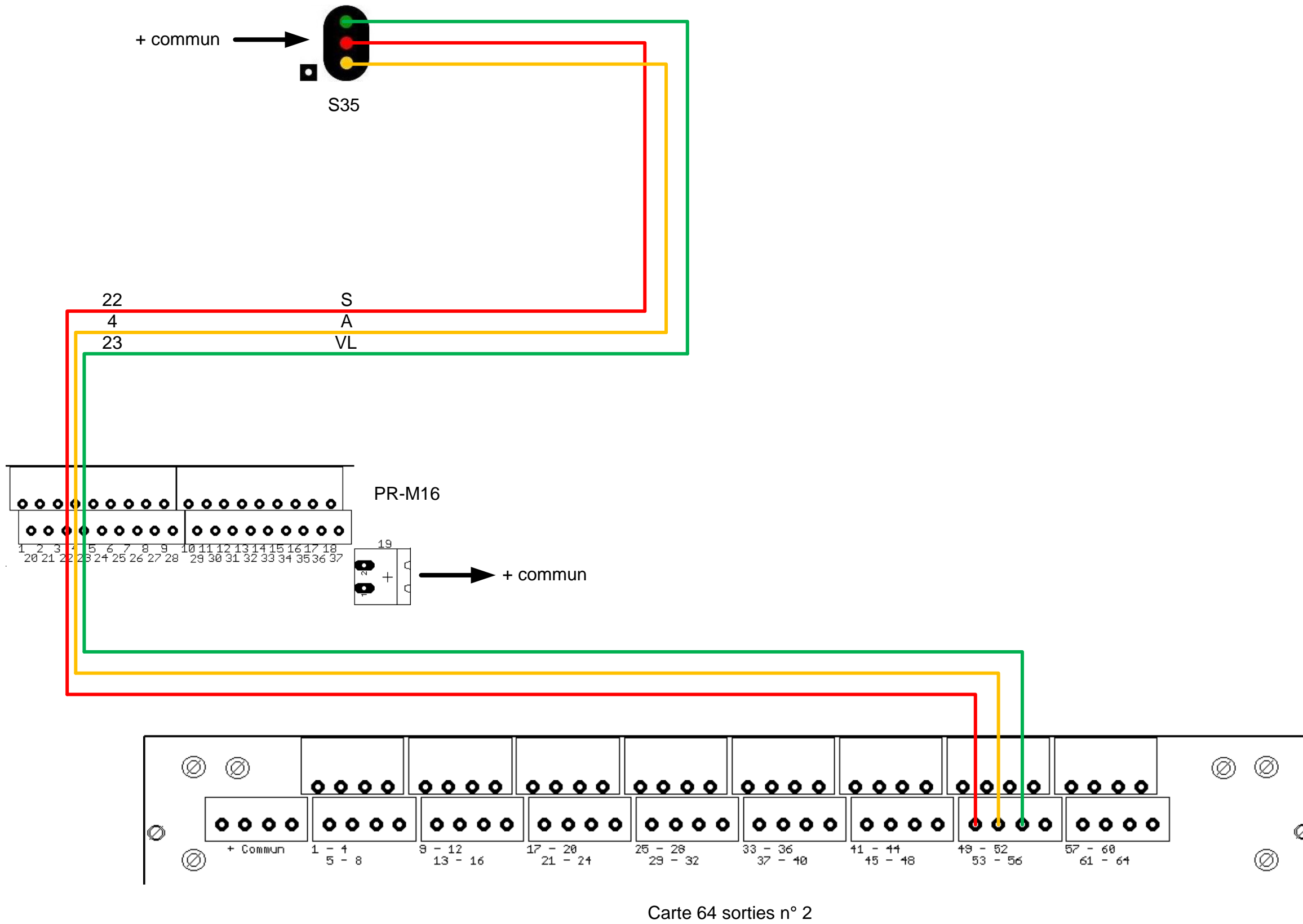


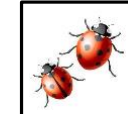
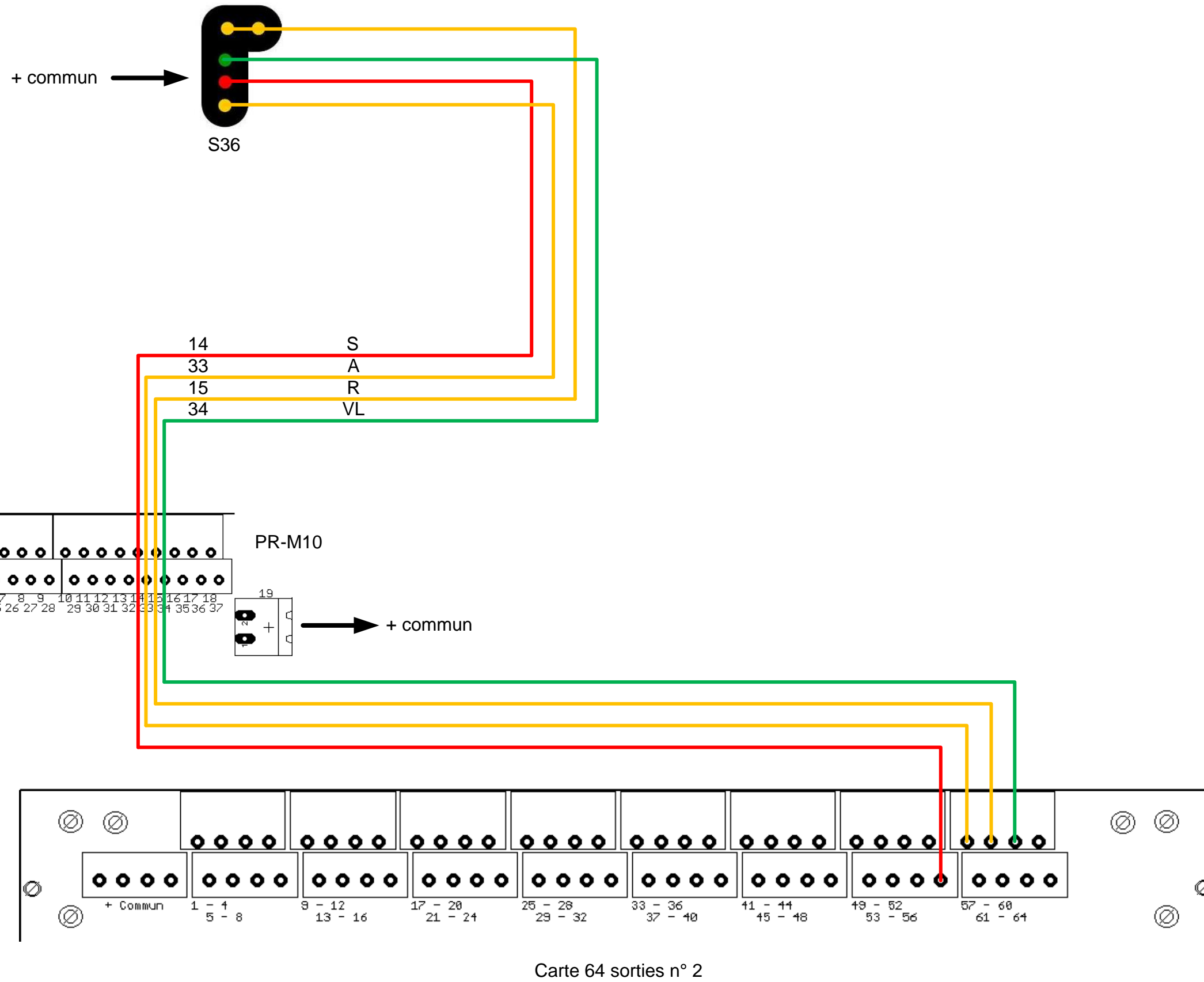
Ladybird – Réseau BOB-TEE 91

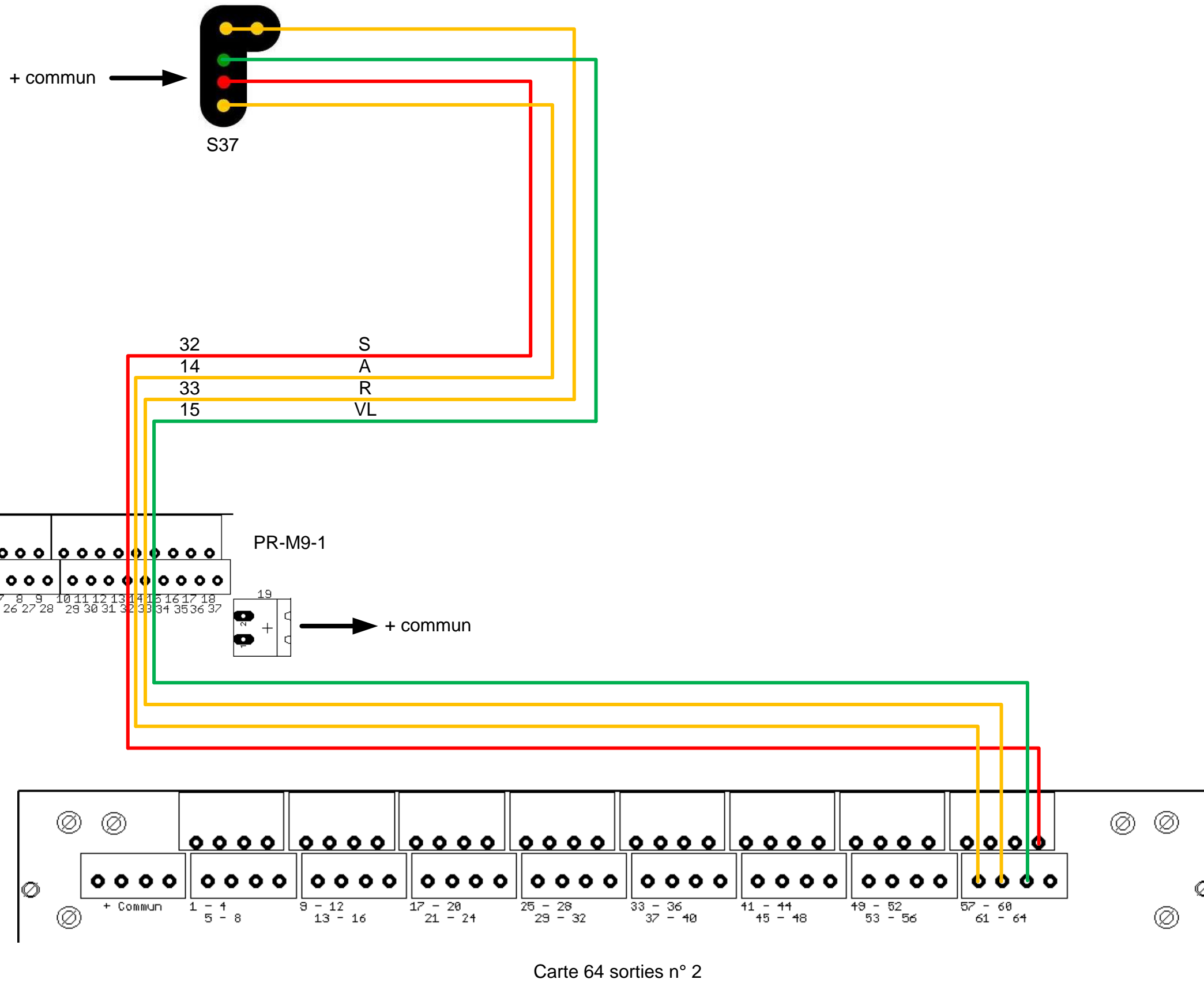
Signal S33

04/10/2022

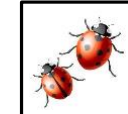
Feuille : 2-02-18

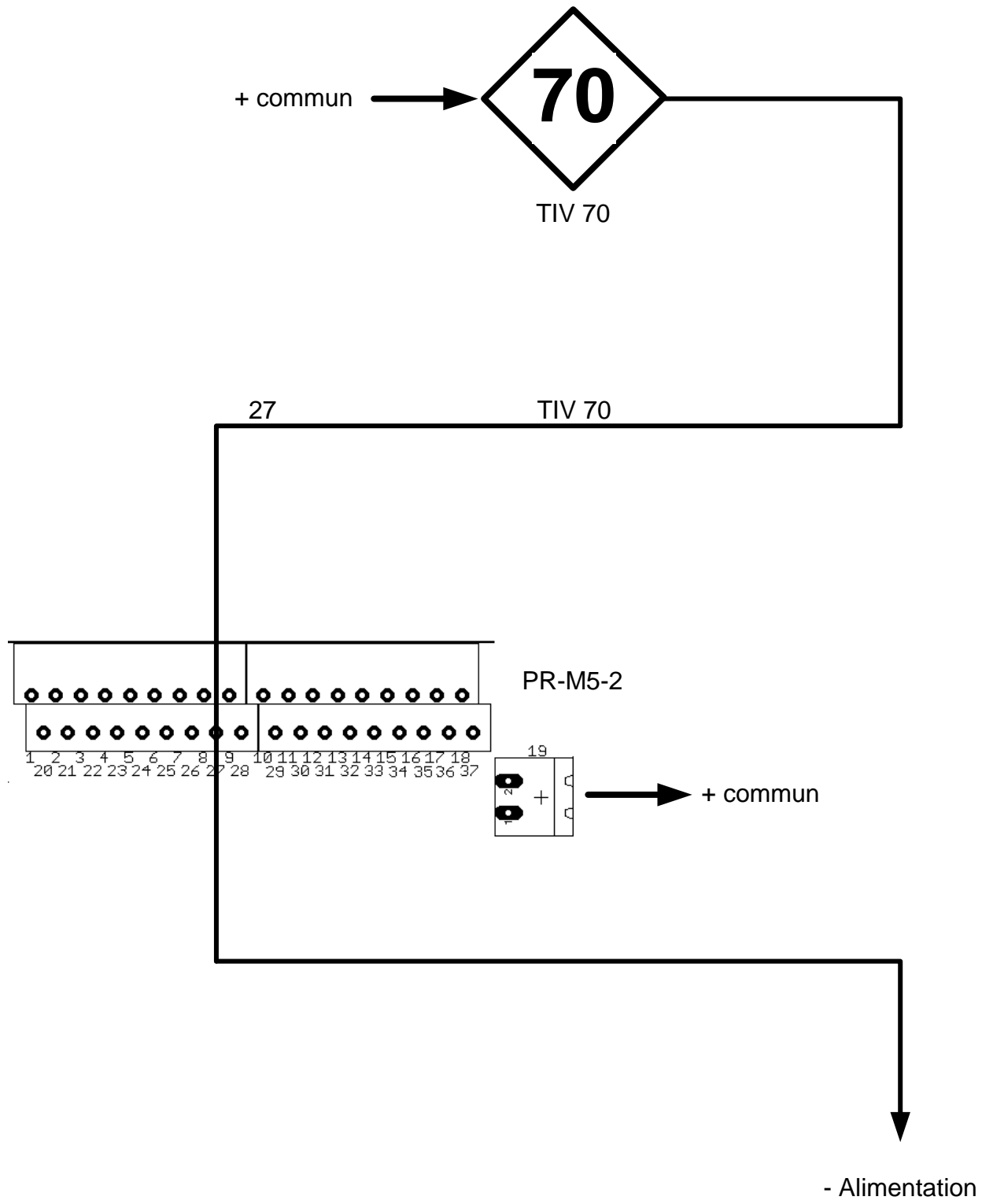


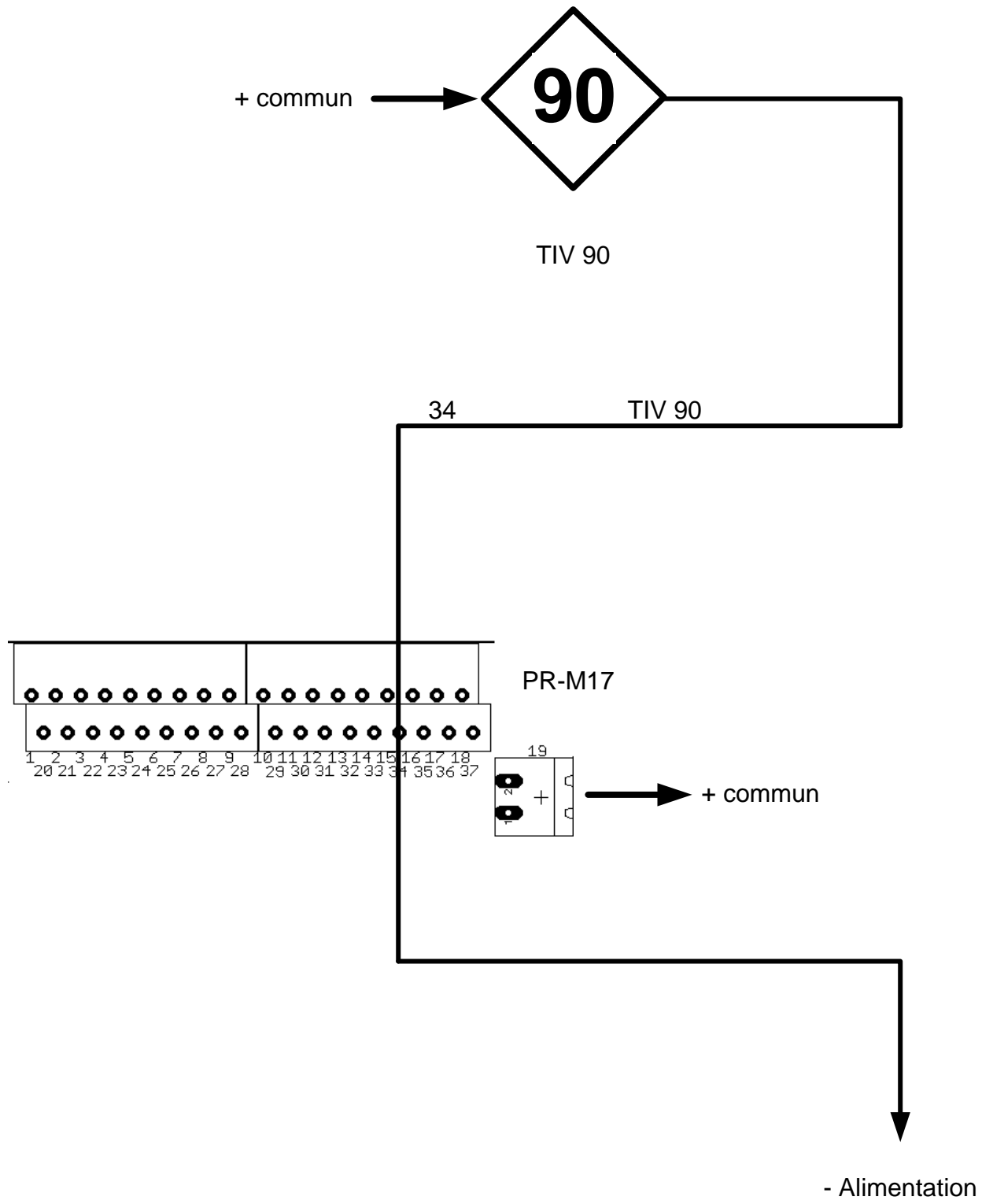




Carte 64 sorties n° 2

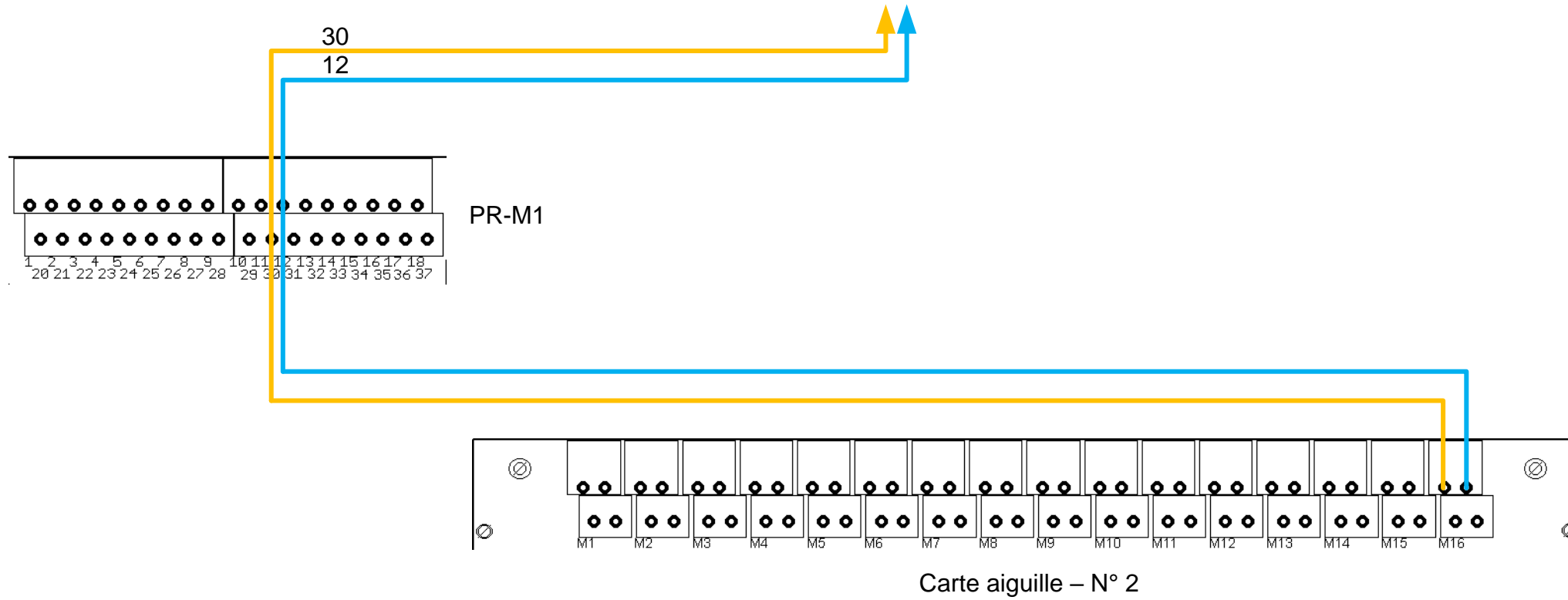








Voir principes de raccordement des moteurs MP1



Ladybird – Réseau BOB-TEE 91

Commande moteur tableau G

23/10/2022

Feuille : 2-03-01

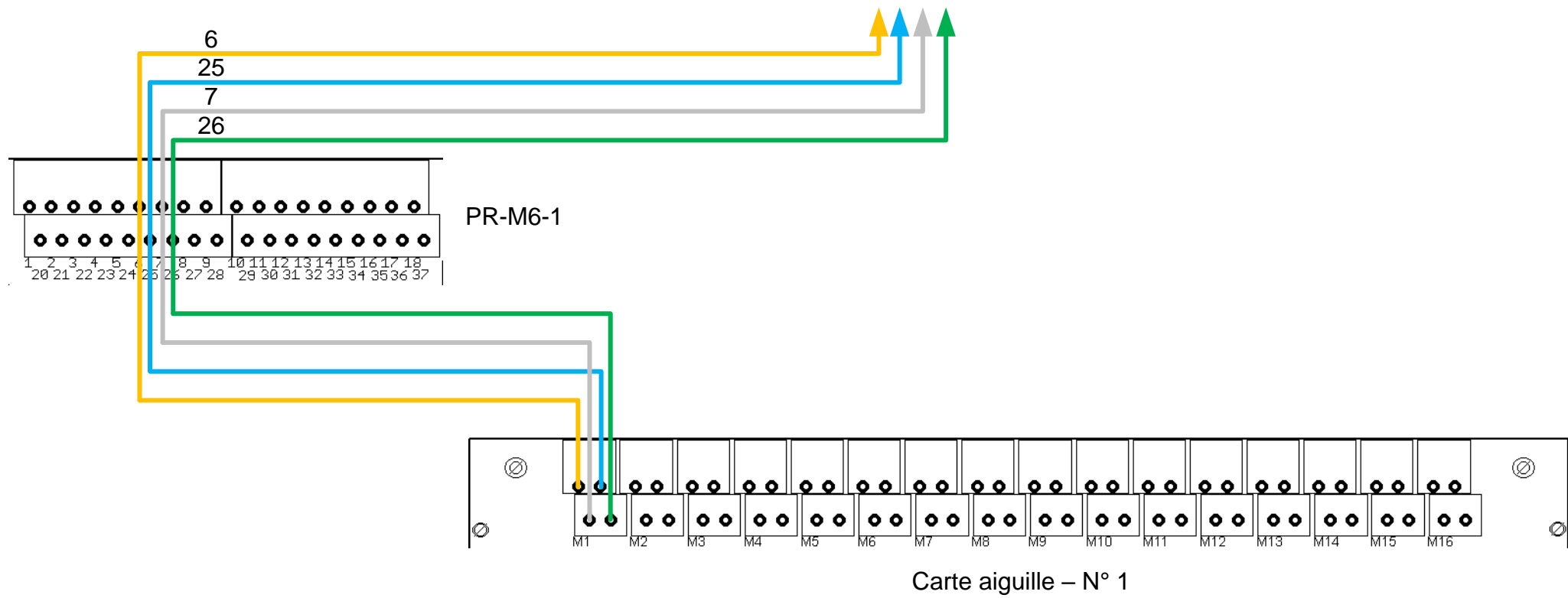
Câblage des moteurs d'aiguillages

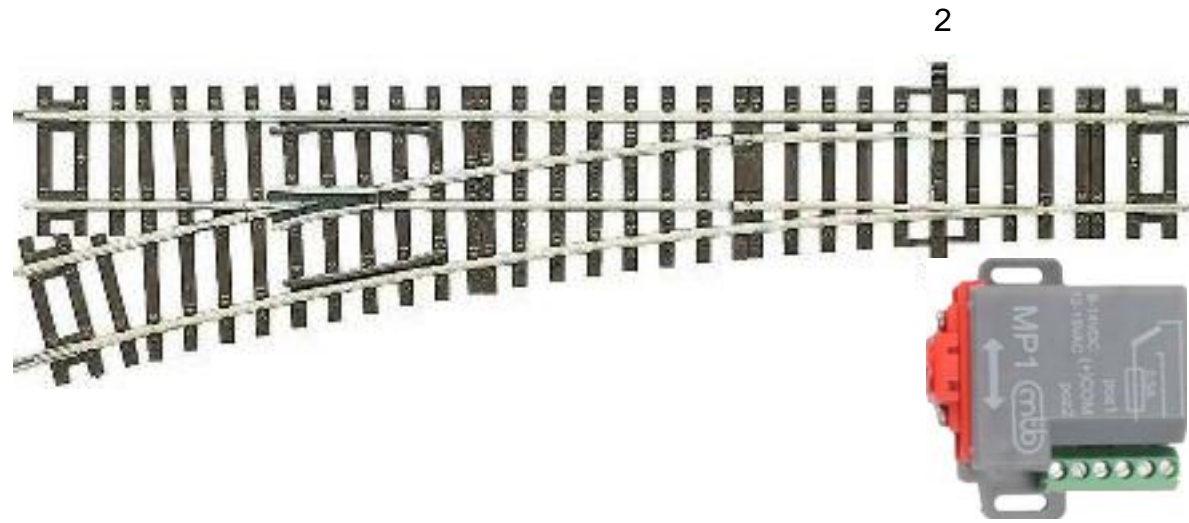
| Appareils de voie | N° de schéma |
|----------------------|--------------|
| Branchement 1 | 3-03-01 |
| Branchement 2 | 3-03-02 |
| Branchement 3 | 3-03-03 |
| TJS 4 | 3-03-04 |
| Branchement 5 | 3-03-05 |
| Branchement 6 | 3-03-06 |
| Branchement 7 | 3-03-07 |
| Branchement triple 8 | 3-03-08 |
| TJD 9 | 3-03-09 |
| Branchement 10 | 3-03-10 |
| Branchement 11 | 3-03-11 |
| Branchement 12 | 3-03-12 |
| Branchement 13 | 3-03-13 |
| Branchement 14 | 3-02-01 |
| Branchement 15 | 3-02-02 |
| Branchement 16 | 3-02-03 |
| Branchement 17 | 3-02-04 |
| Branchement 18 | 3-02-05 |
| TJS19 | 3-02-06 |
| Branchement 20 | 3-02-07 |
| Branchement 21 | 3-02-08 |



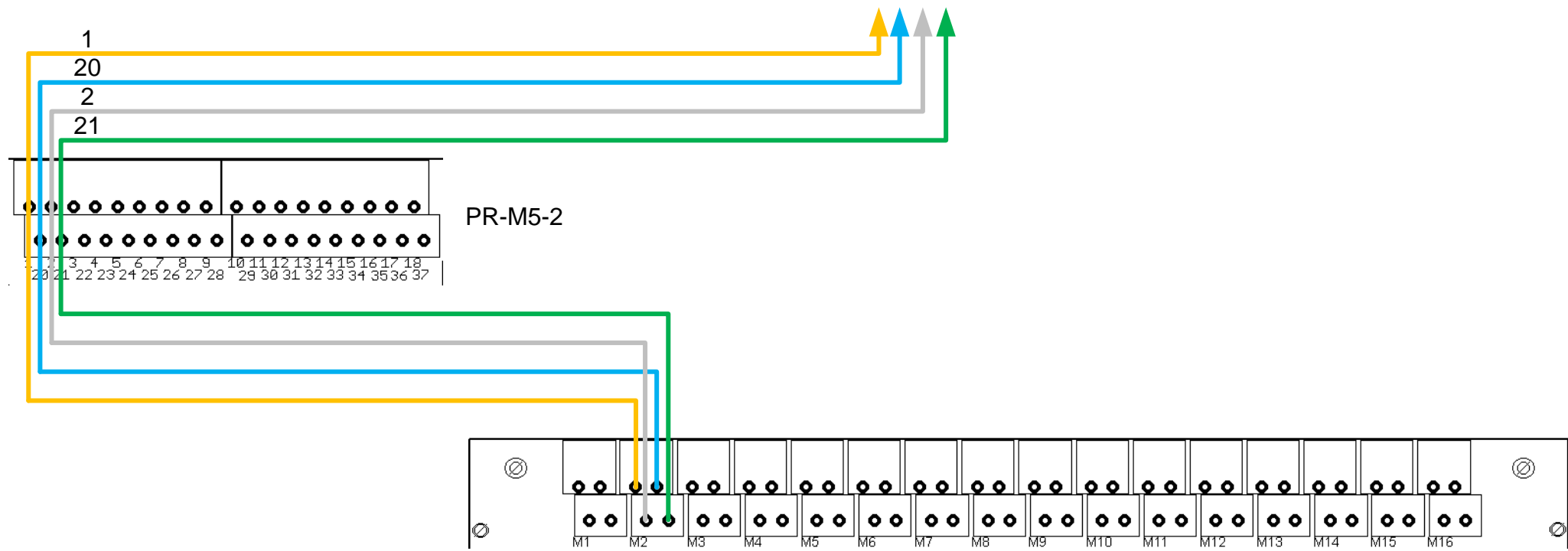


Voir principes de raccordement des moteurs MP1





Voir principes de raccordement des moteurs MP1



Carte aiguille – N° 1

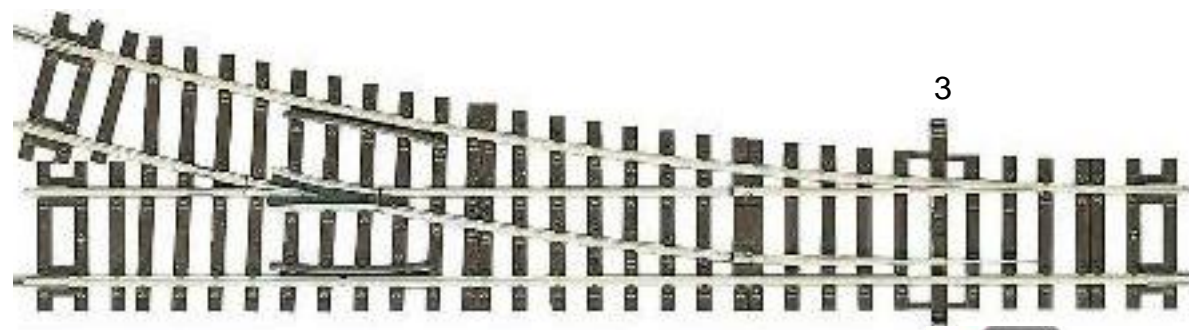


Ladybird – Réseau BOB-TEE 91

Branchement 2

04/10/2022

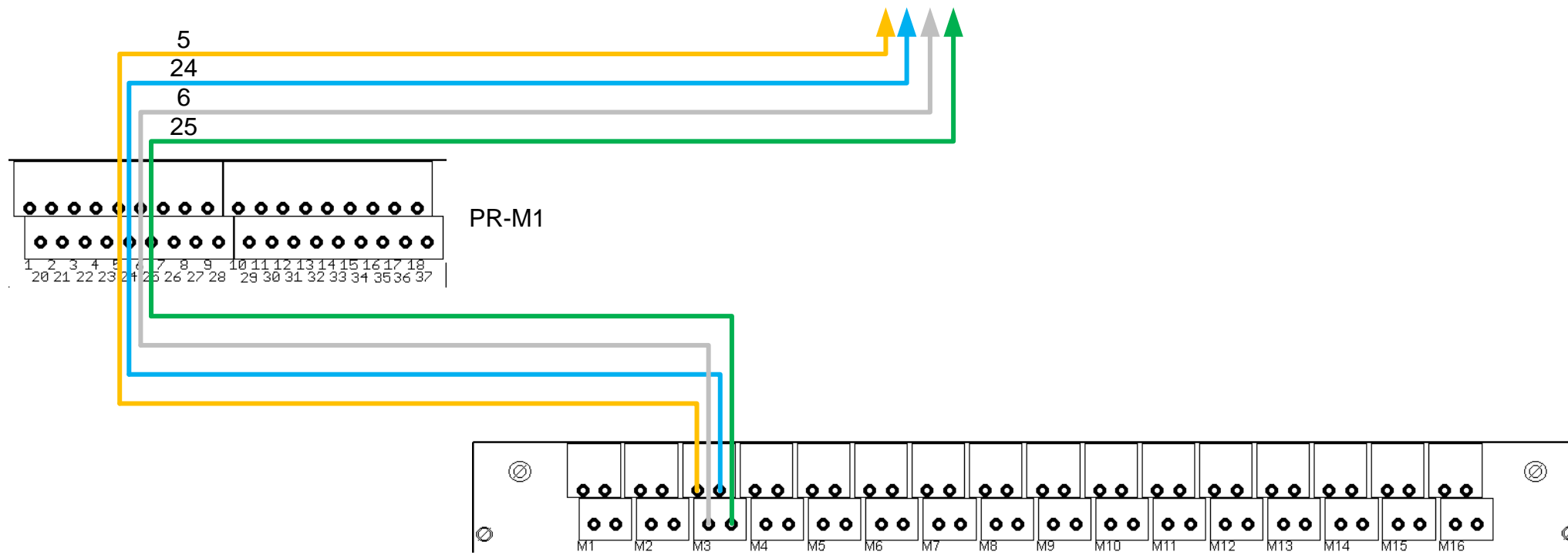
Feuille : 3-01-02



3

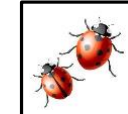


Voir principes de raccordement des moteurs MP1



PR-M1

Carte aiguille – N° 1

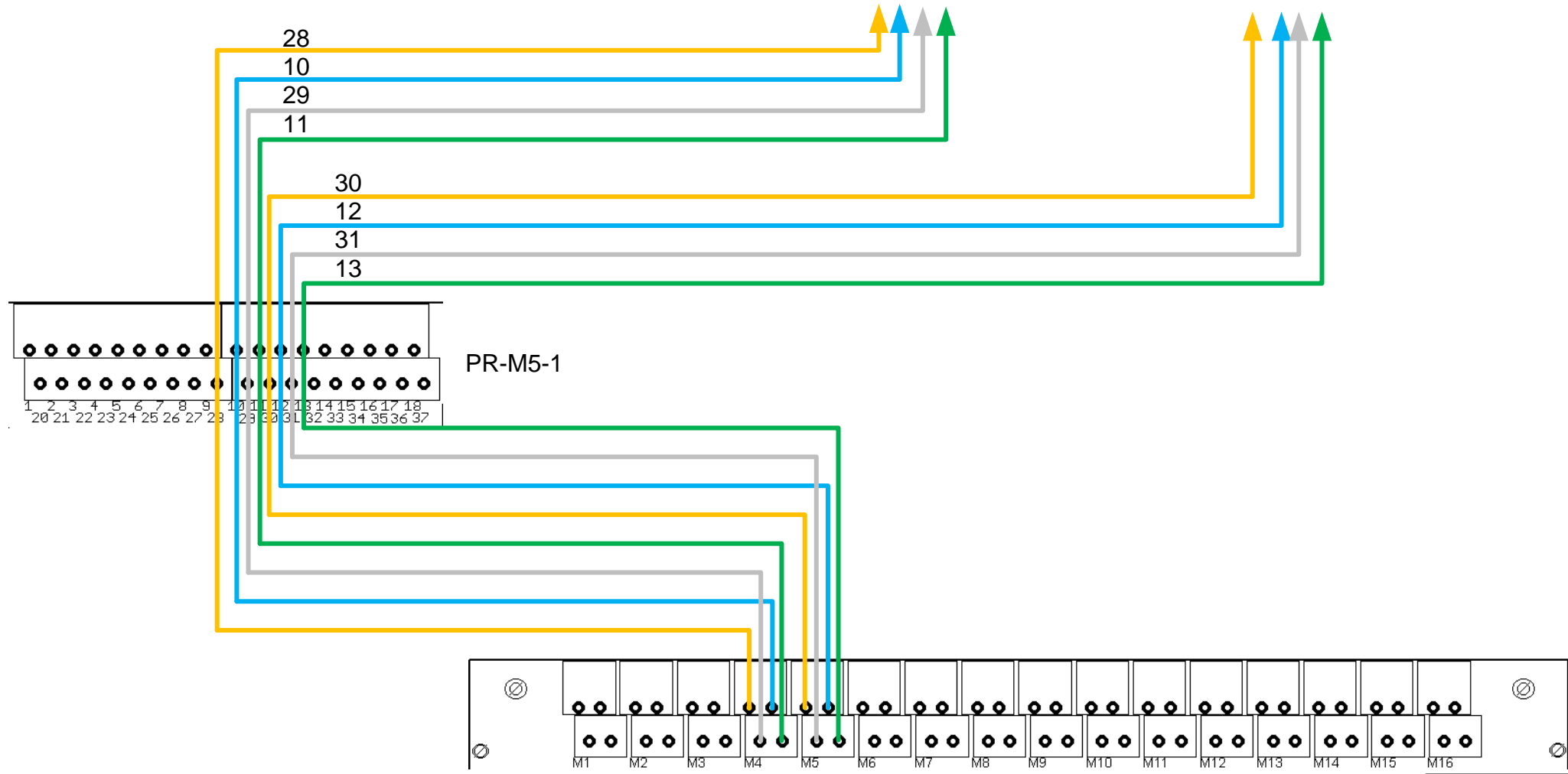
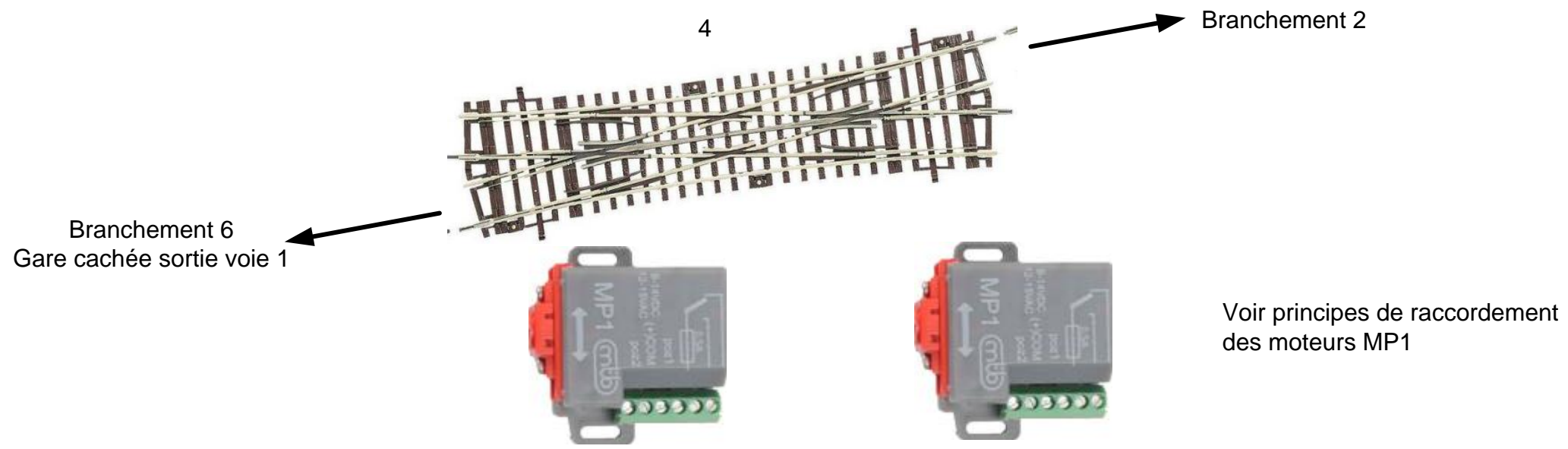


Ladybird – Réseau BOB-TEE 91


Branchement 3

04/10/2022

Feuille : 3-01-03



Carte aiguille – N° 1

 Ladybird – Réseau BOB-TEE 91

TJS 4

04/10/2022

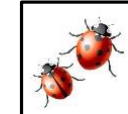
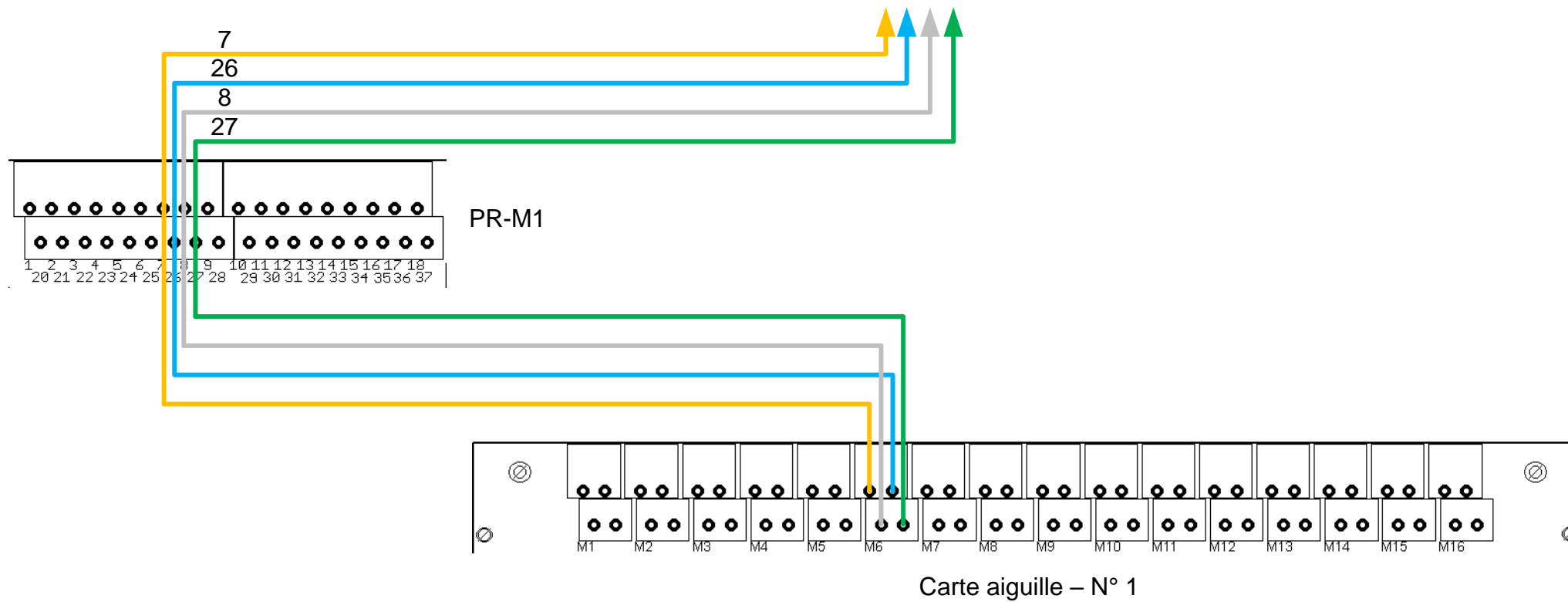
Feuille : 3-01-04



5



Voir principes de raccordement des moteurs MP1

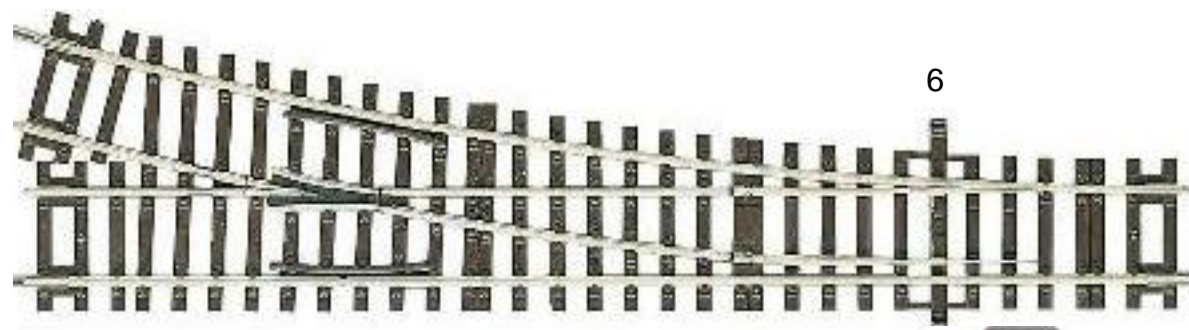


Ladybird – Réseau BOB-TEE 91

Branchement 5

04/10/2022

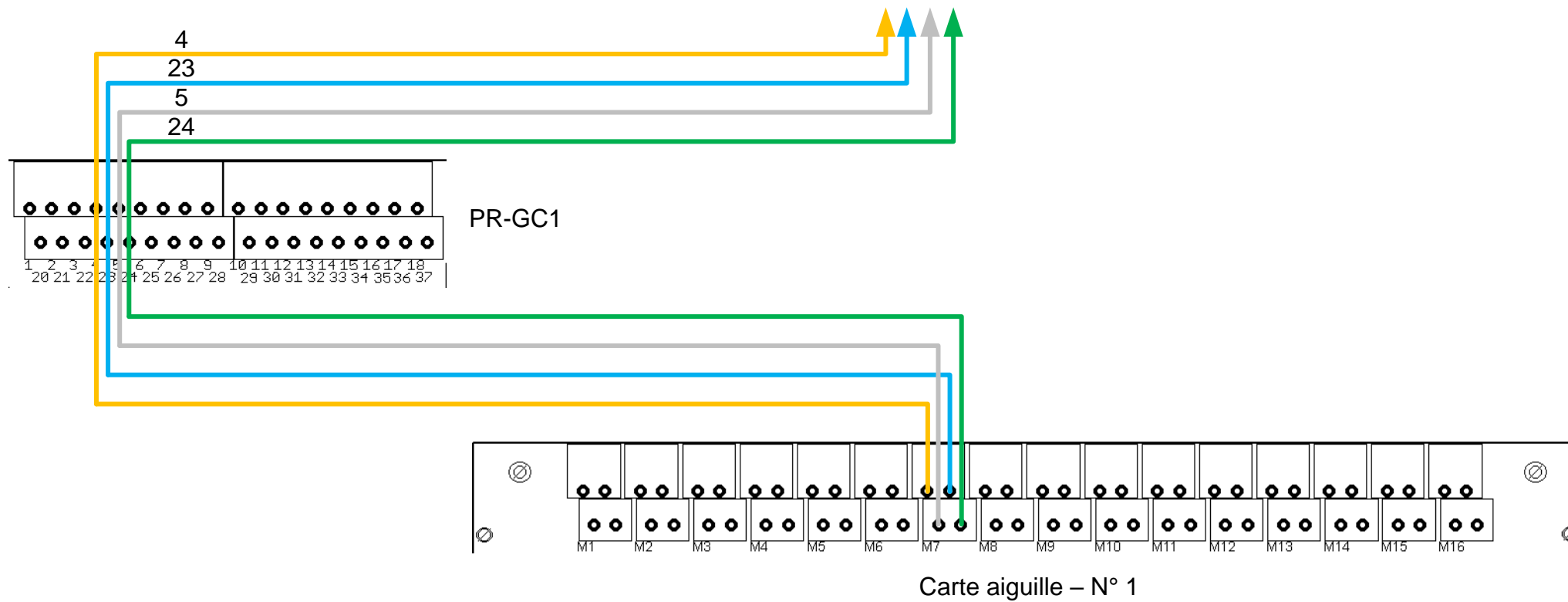
Feuille : 3-01-05



6



Voir principes de raccordement des moteurs MP1

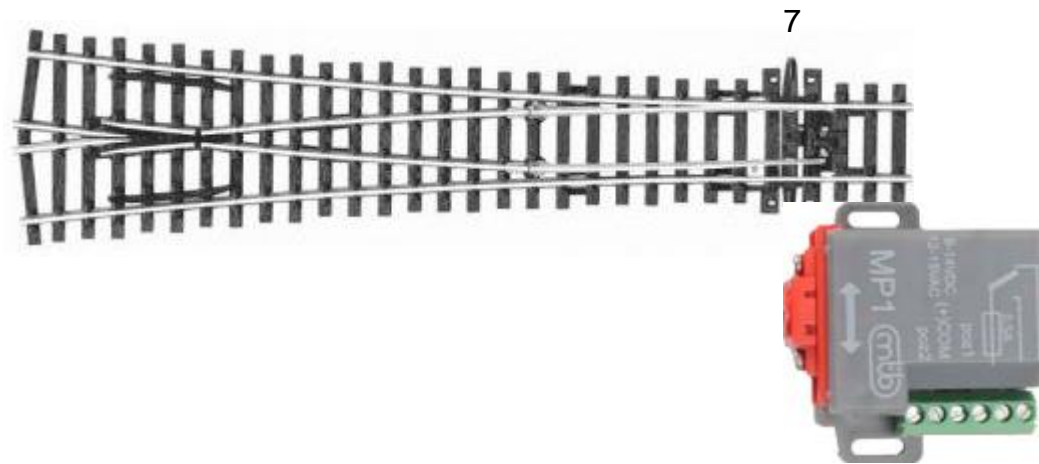


Ladybird – Réseau BOB-TEE 91

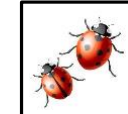
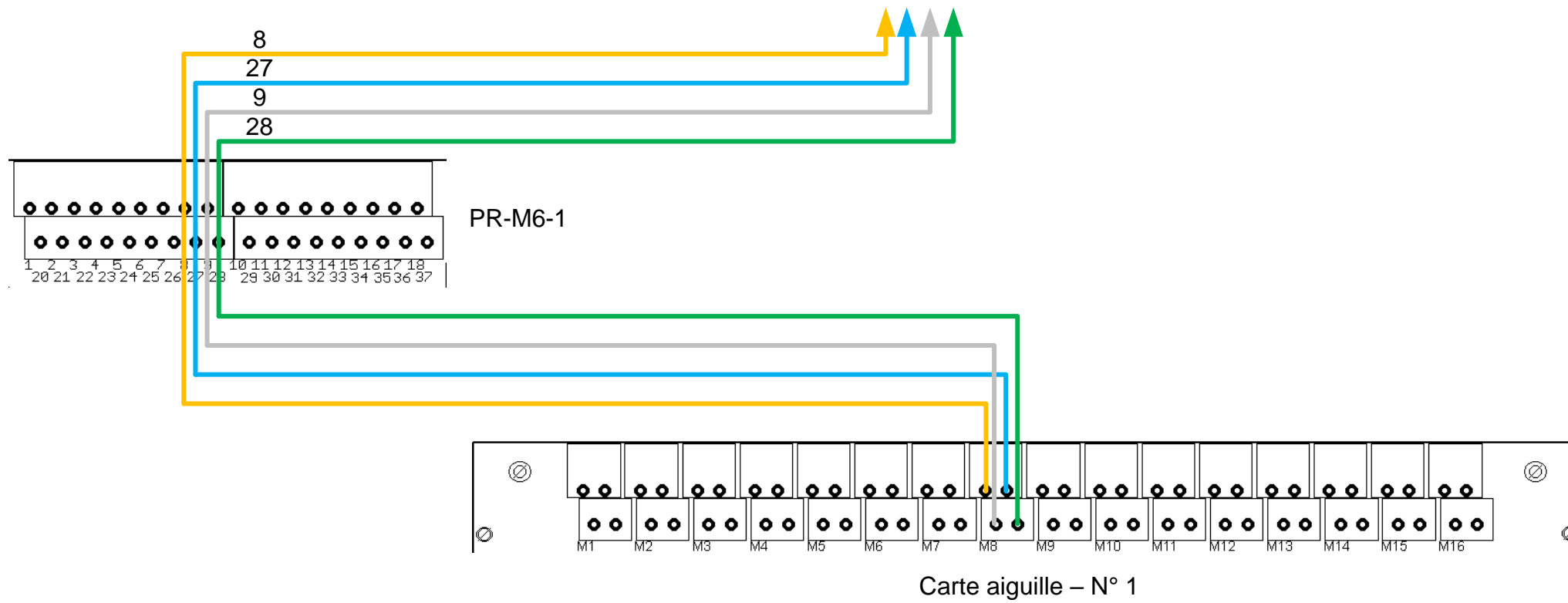
Branchement 6

04/10/2022

Feuille : 3-01-06



Voir principes de raccordement des moteurs MP1

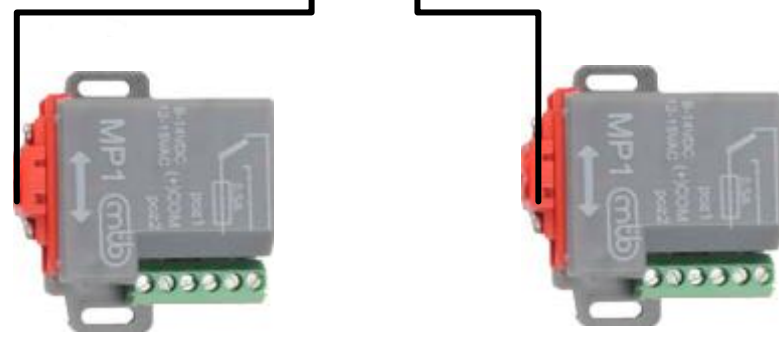
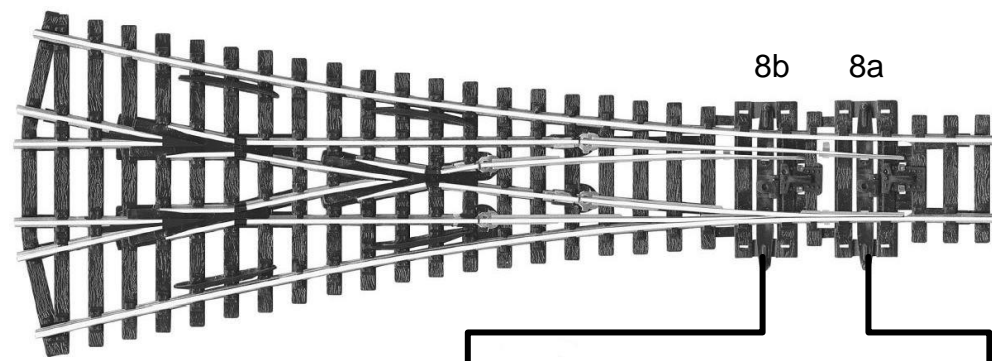


Ladybird – Réseau BOB-TEE 91

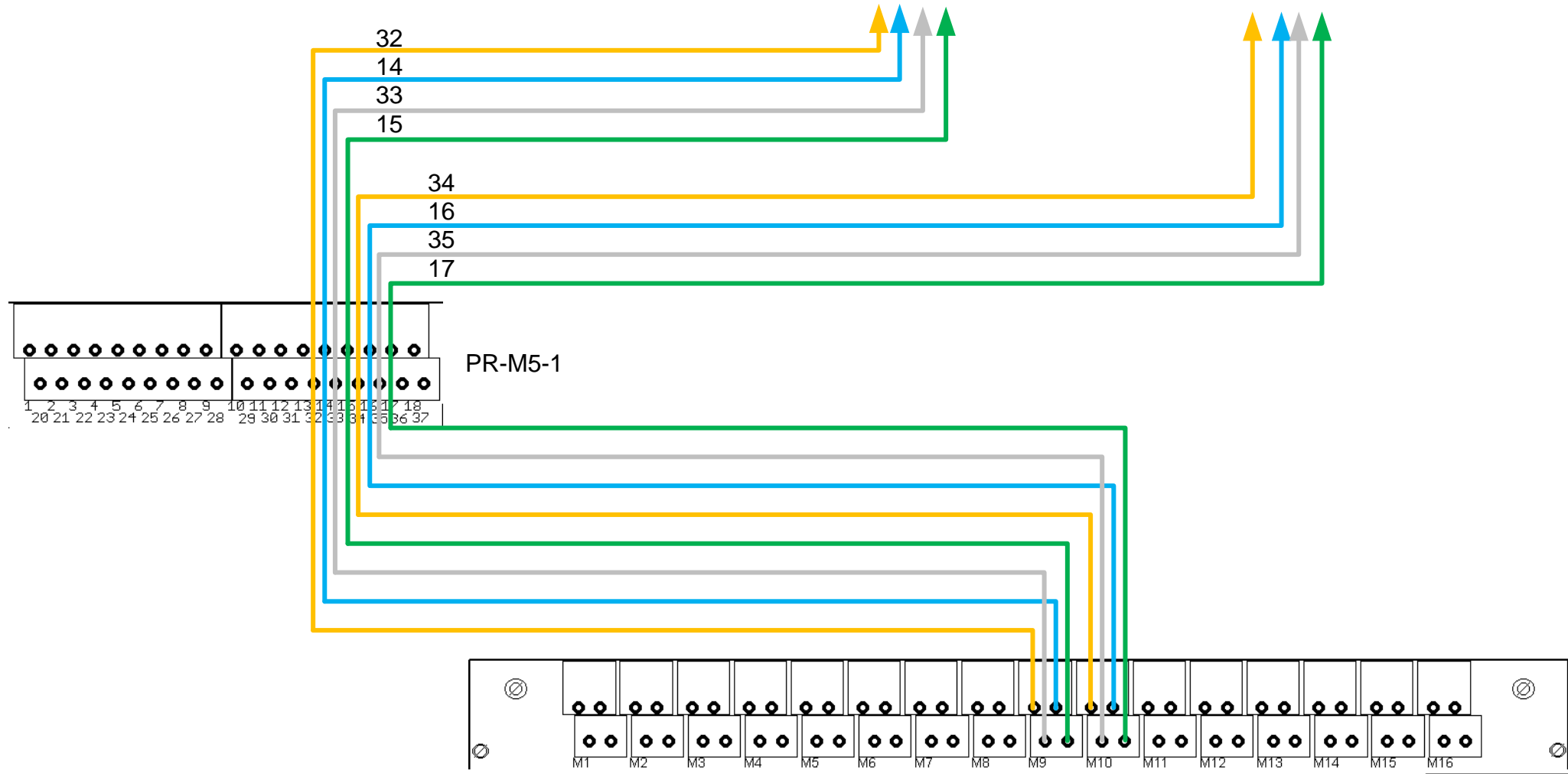
Branchement 7

04/10/2022

Feuille : 3-01-07



Voir principes de raccordement des moteurs MP1



Carte aiguille - N° 1

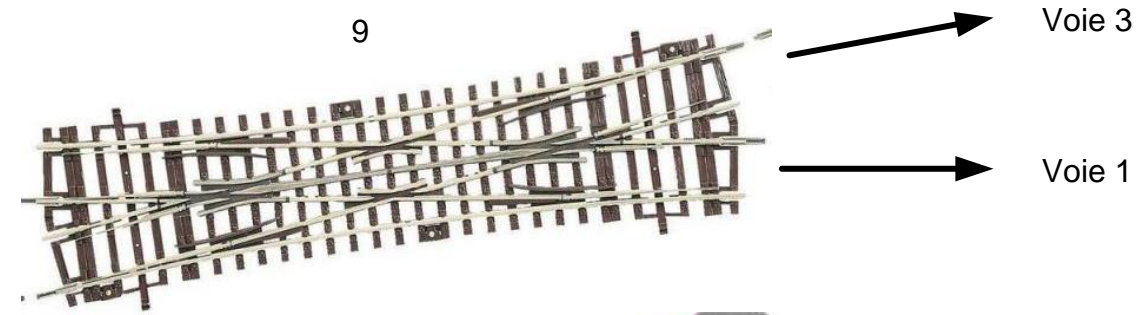


Ladybird - Réseau BOB-TEE 91

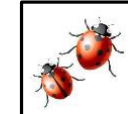
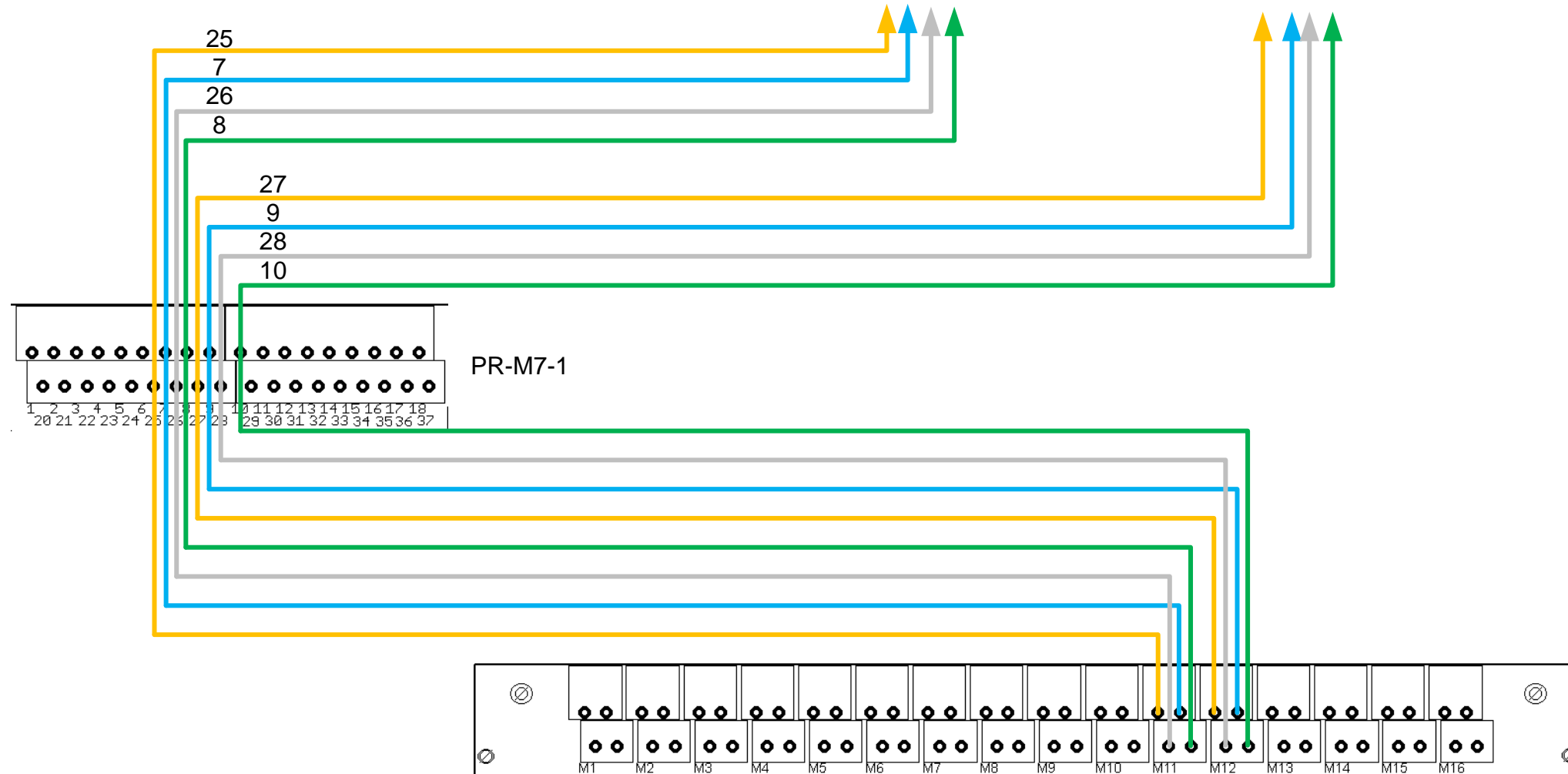
Branchement triple 8

04/10/2022

Feuille : 3-01-08



Voir principes de raccordement des moteurs MP1



Ladybird – Réseau BOB-TEE 91

TJS 9

09/11/2022

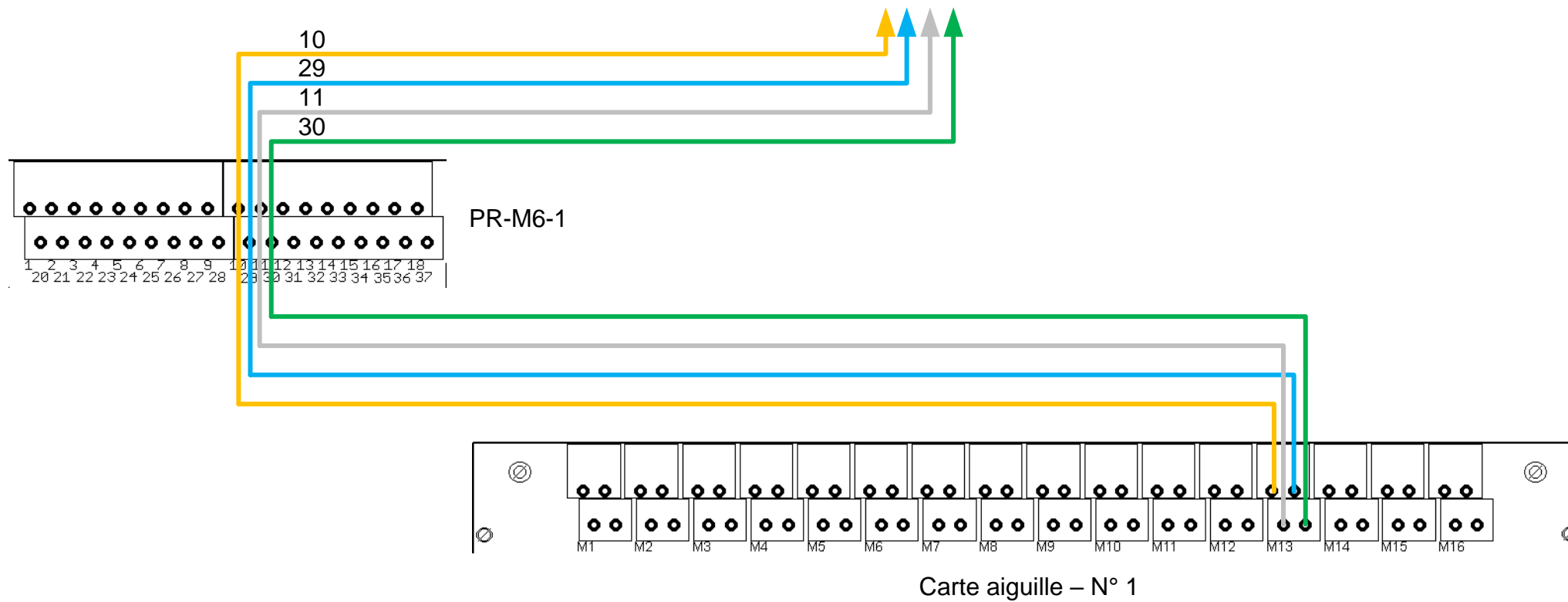
Feuille : 3-01-09



10



Voir principes de raccordement des moteurs MP1

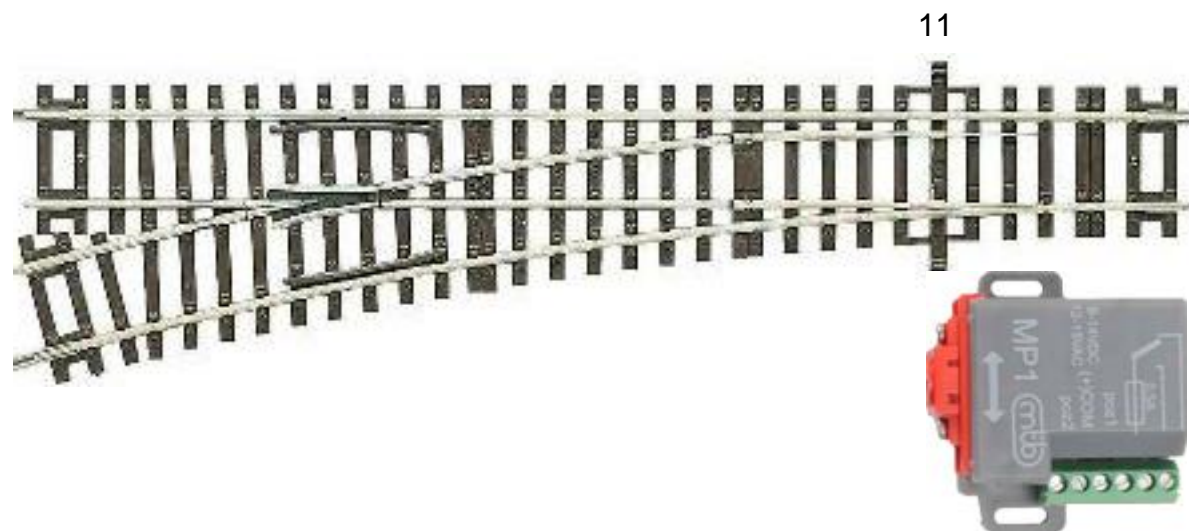


Ladybird – Réseau BOB-TEE 91

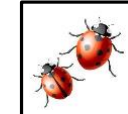
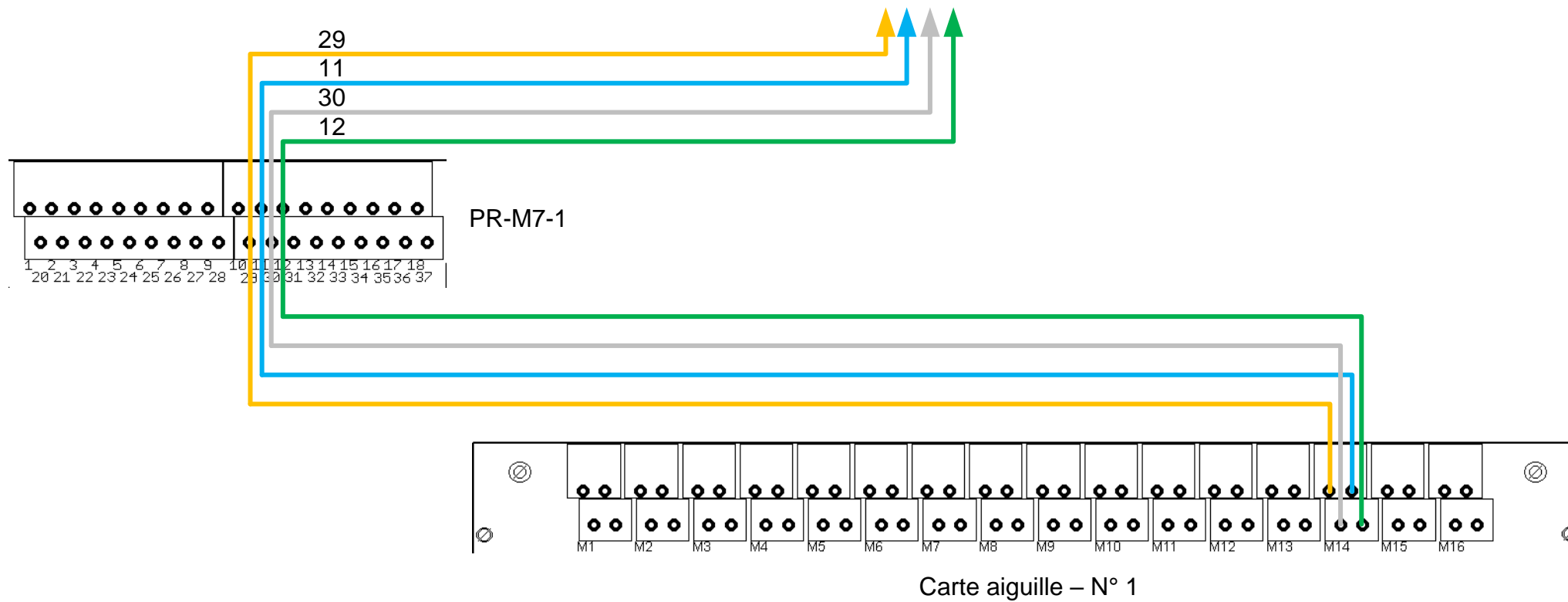
Branchement 10

04/10/2022

Feuille : 3-01-10



Voir principes de raccordement des moteurs MP1

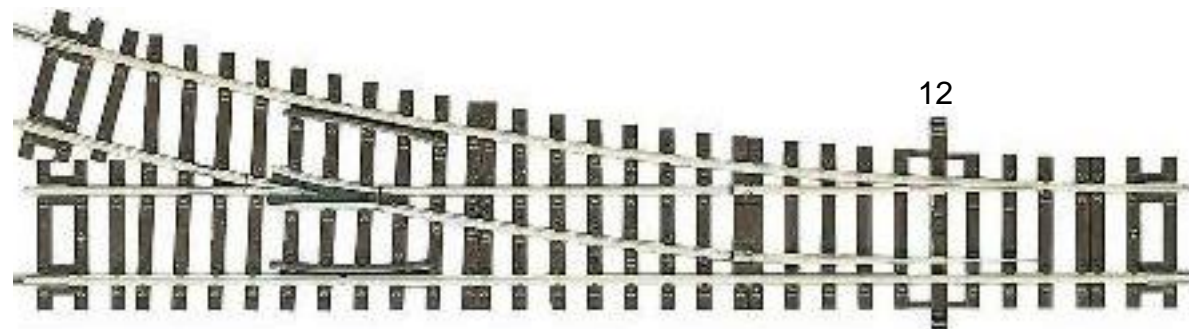


Ladybird – Réseau BOB-TEE 91

Branchement 11

09/11/2022

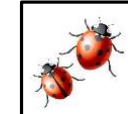
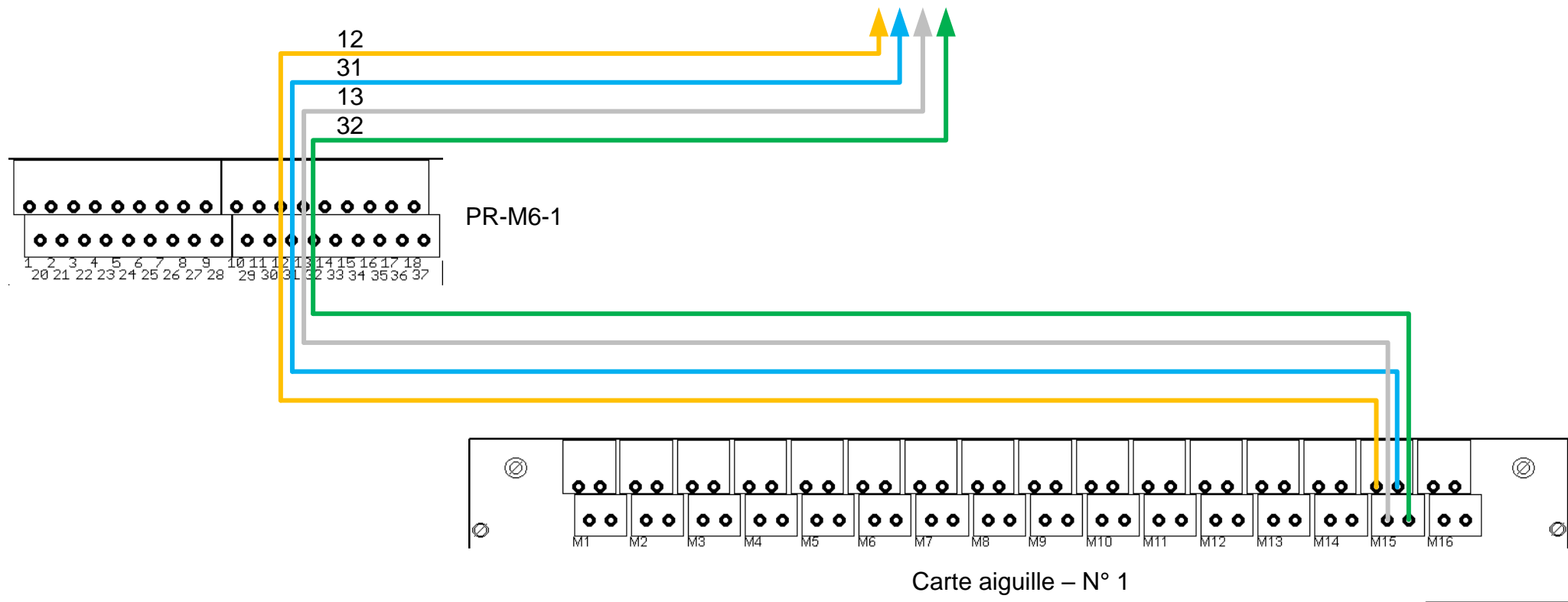
Feuille : 3-01-11



12



Voir principes de raccordement des moteurs MP1

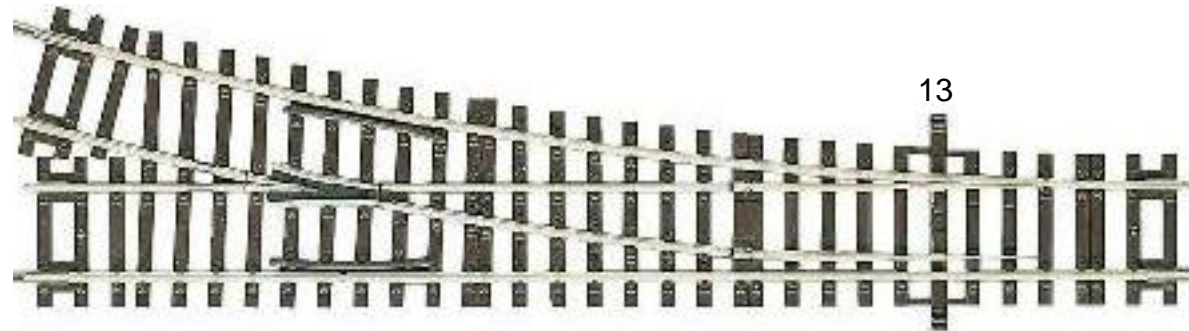


Ladybird – Réseau BOB-TEE 91

Branchement 12

04/10/2022

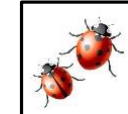
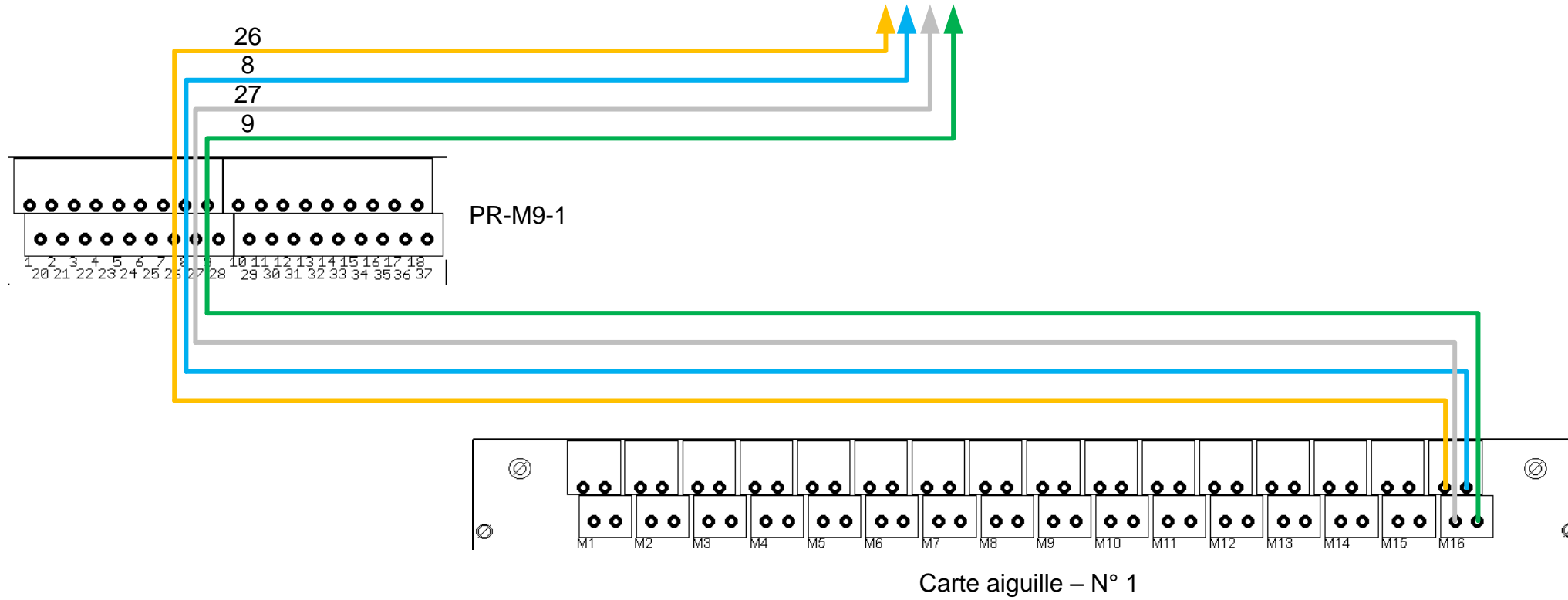
Feuille : 3-01-12



13



Voir principes de raccordement des moteurs MP1



Ladybird – Réseau BOB-TEE 91

Branchement 13

04/10/2022

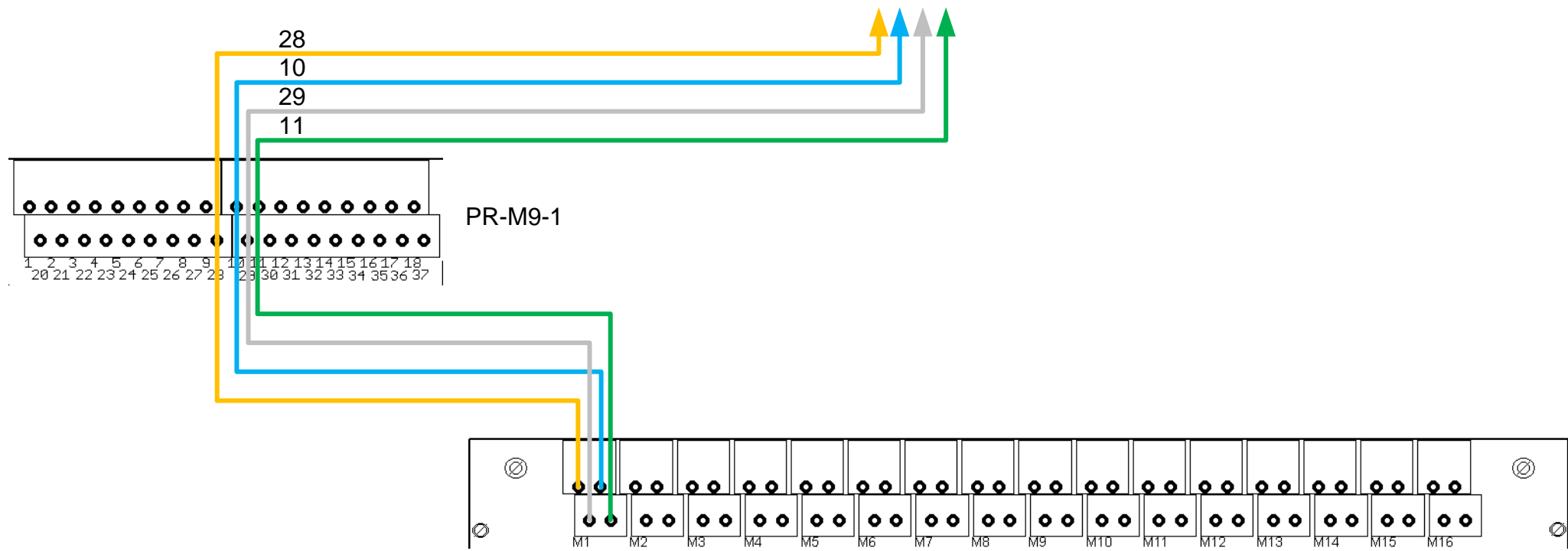
Feuille : 3-01-13



14



Voir principes de raccordement des moteurs MP1



PR-M9-1

Carte aiguille – N° 2



Ladybird – Réseau BOB-TEE 91

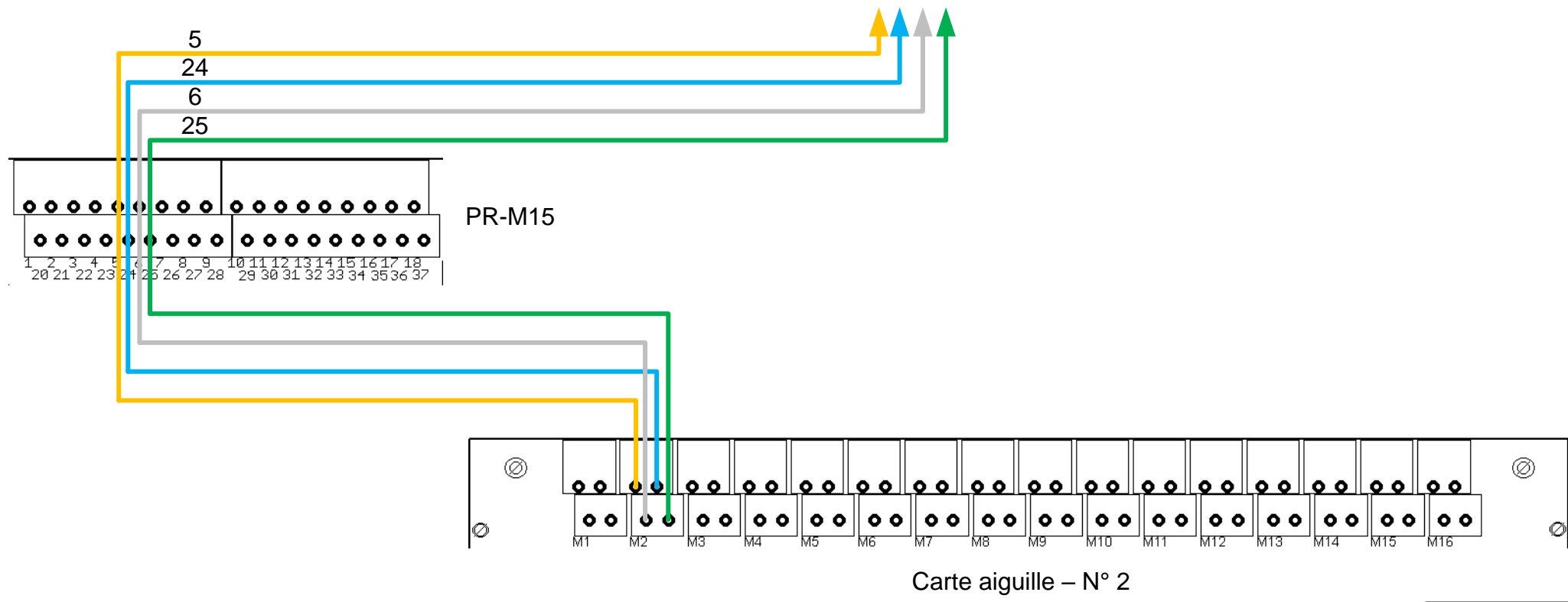
Branchement 14

04/10/2022

Feuille : 3-02-01



Voir principes de raccordement des moteurs MP1

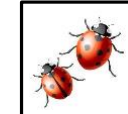
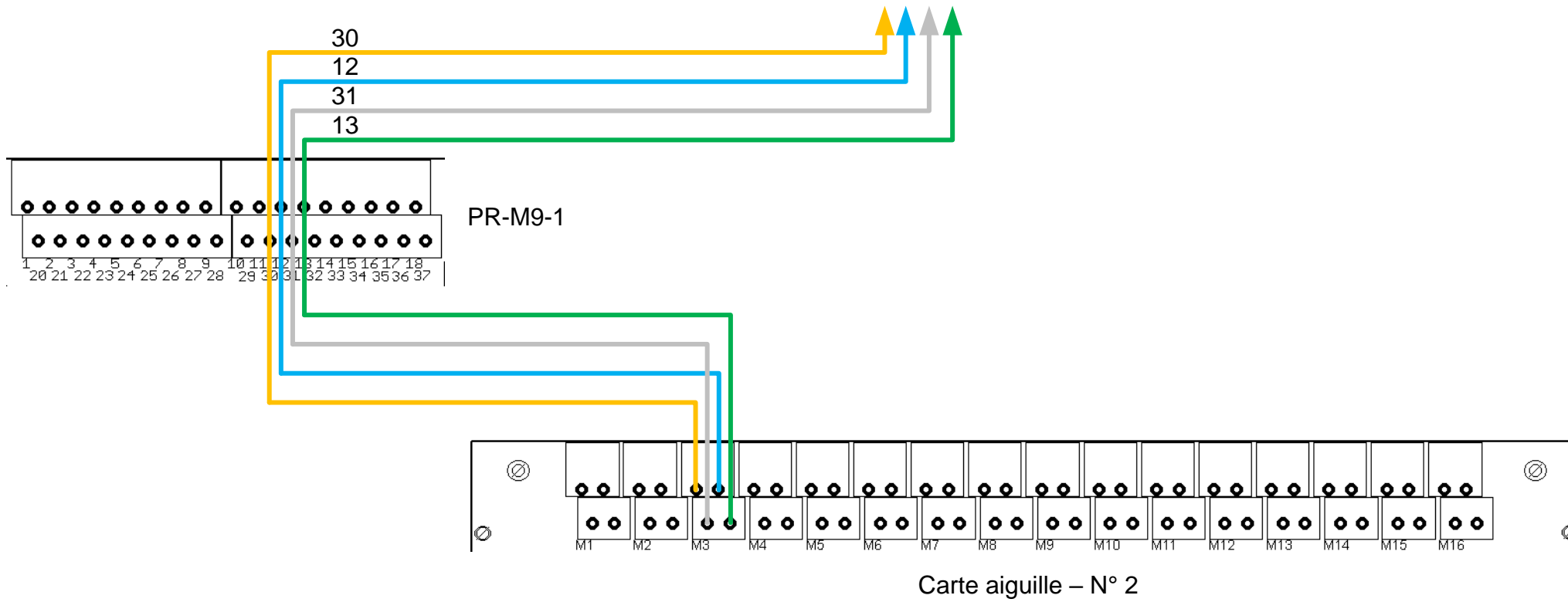




16



Voir principes de raccordement des moteurs MP1

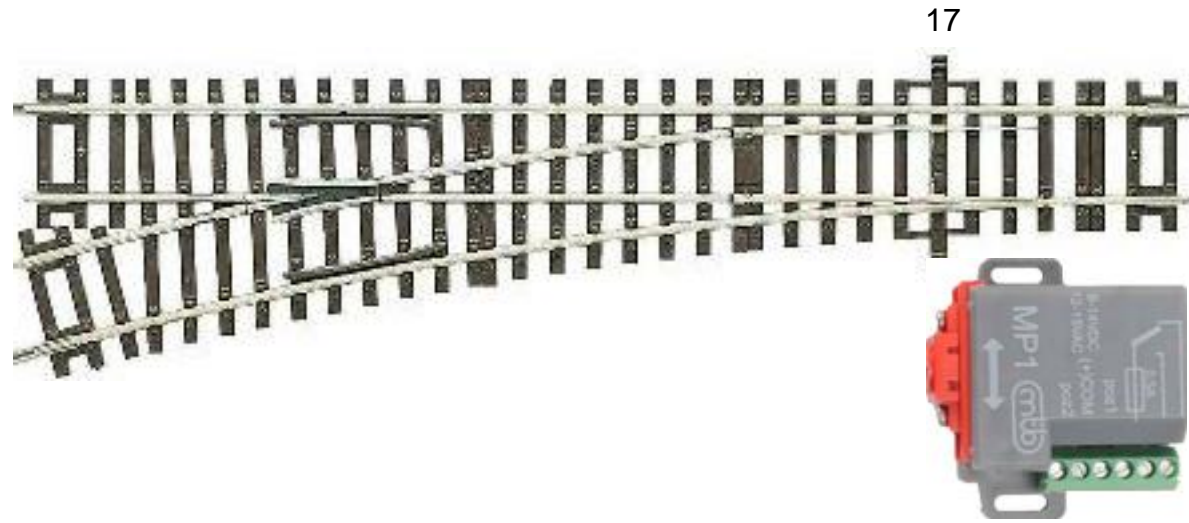


Ladybird – Réseau BOB-TEE 91

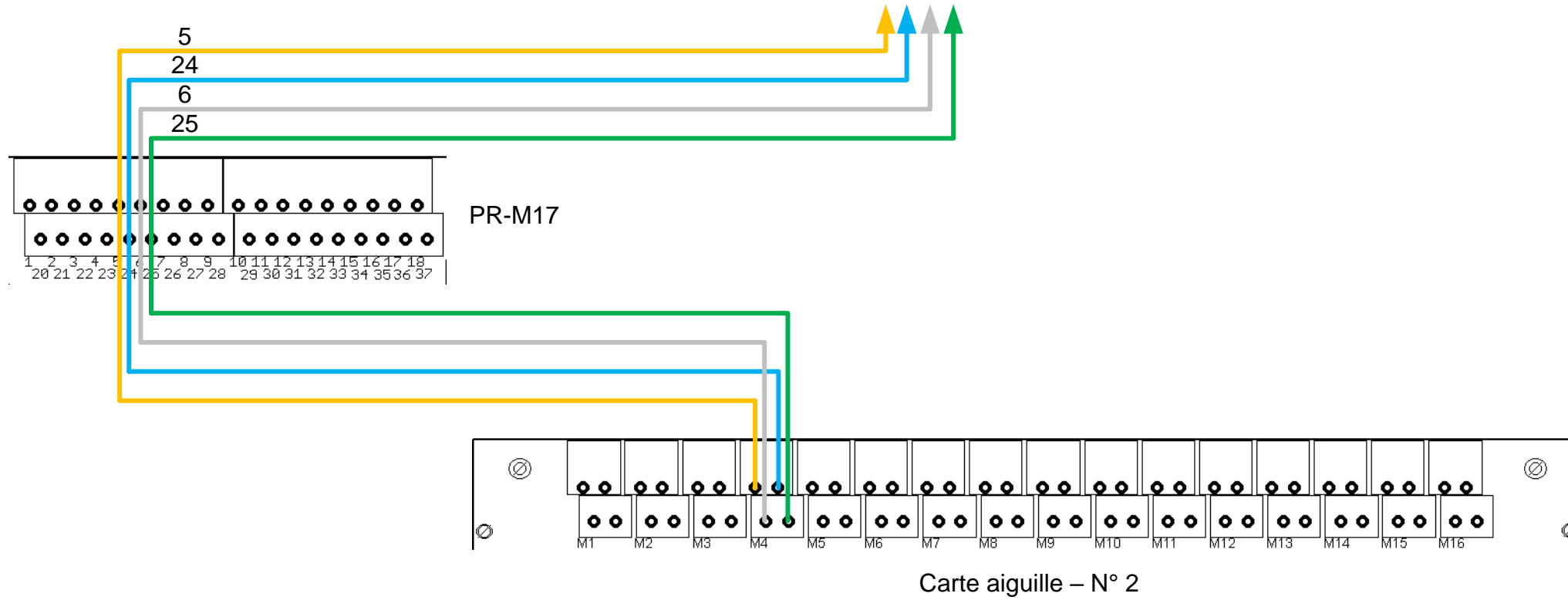
Branchement 16

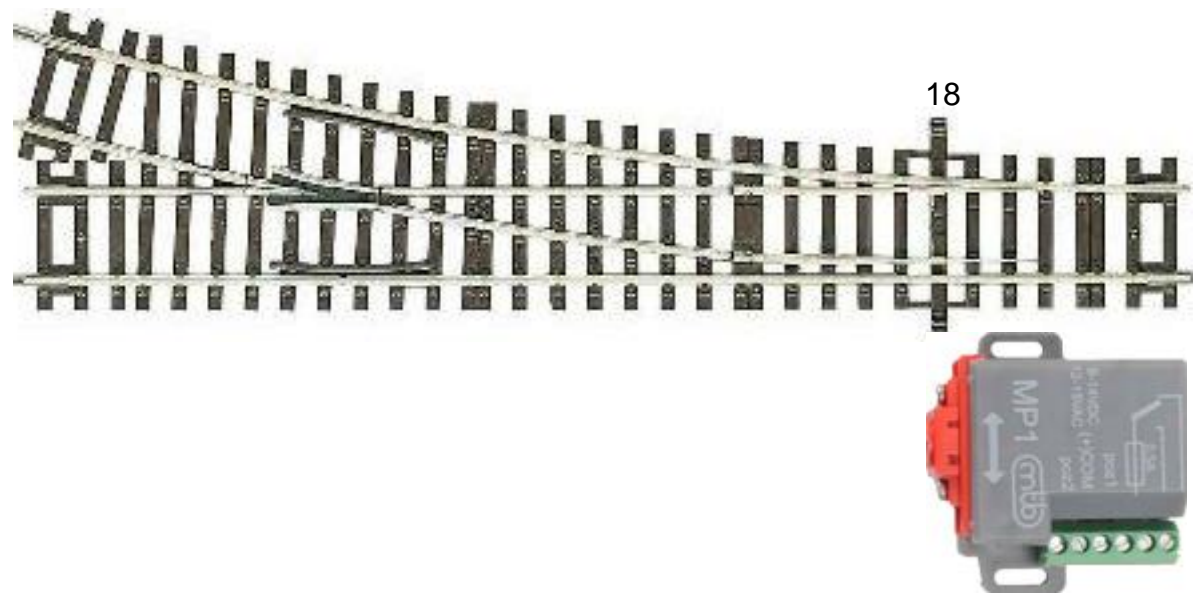
04/10/2022

Feuille : 3-02-03



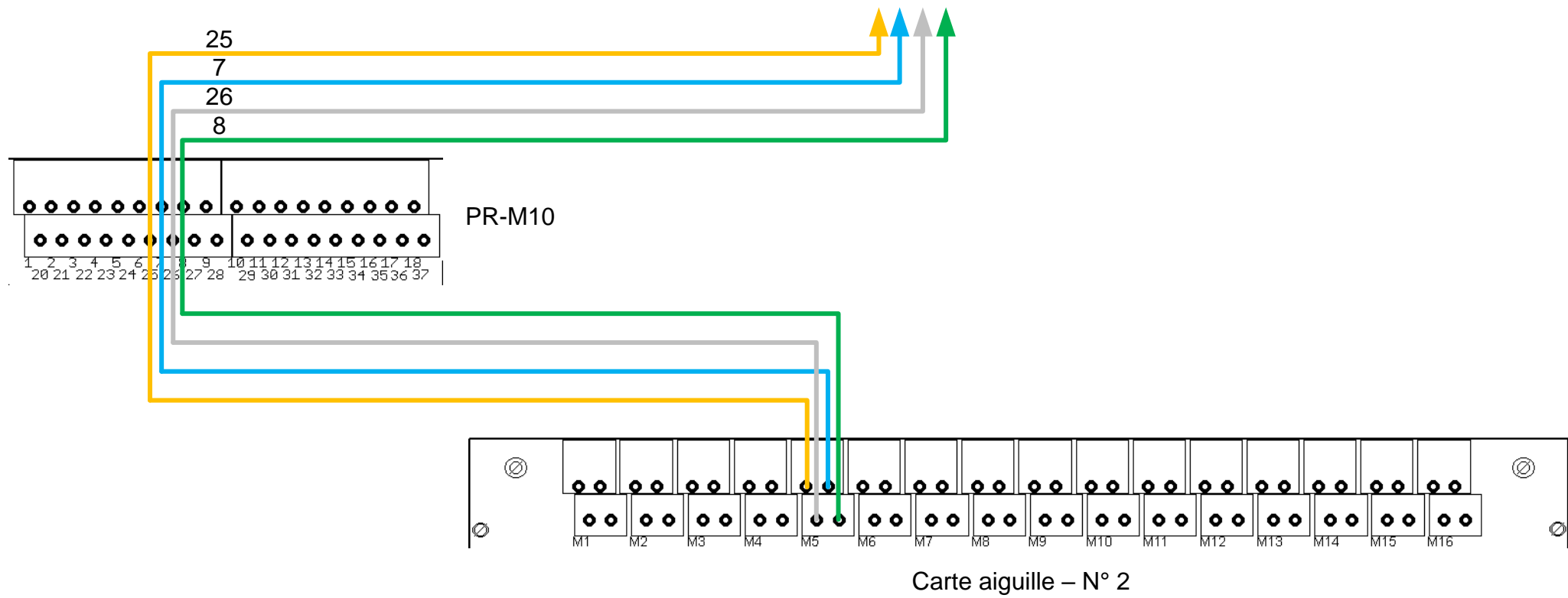
Voir principes de raccordement des moteurs MP1





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Voir principes de raccordement des moteurs MP1

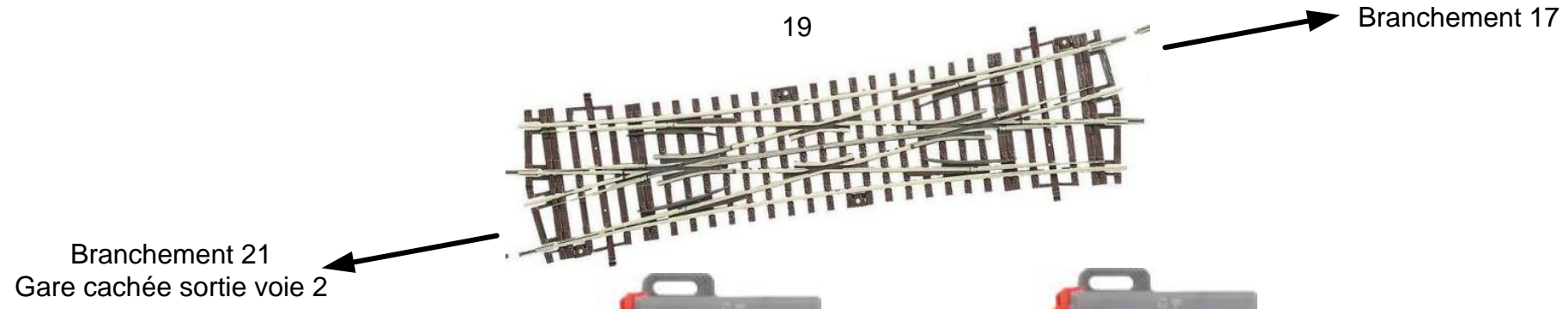


Ladybird – Réseau BOB-TEE 91

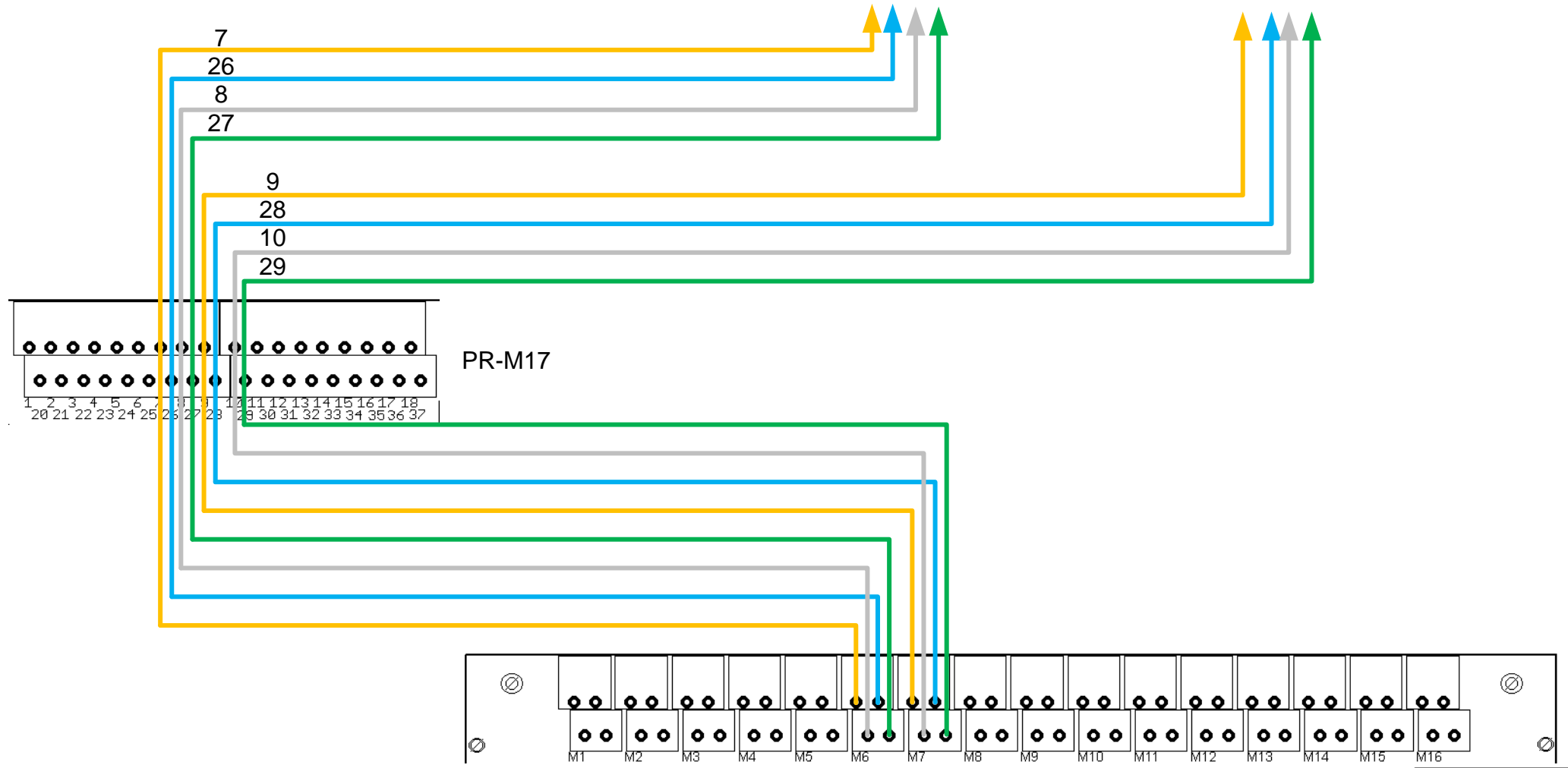
Branchement 18

04/10/2022

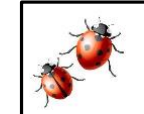
Feuille : 3-02-05



Voir principes de raccordement
des moteurs MP1



Carte aiguille – N° 2

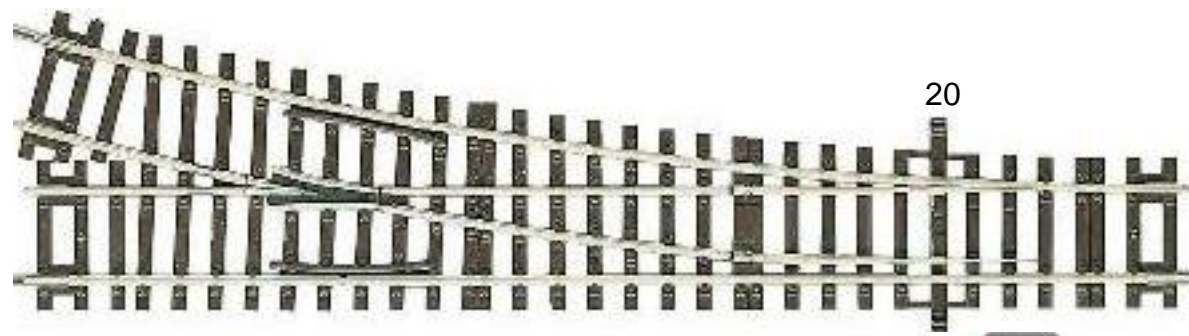


Ladybird – Réseau BOB-TEE 91

TJS 19

04/10/2022

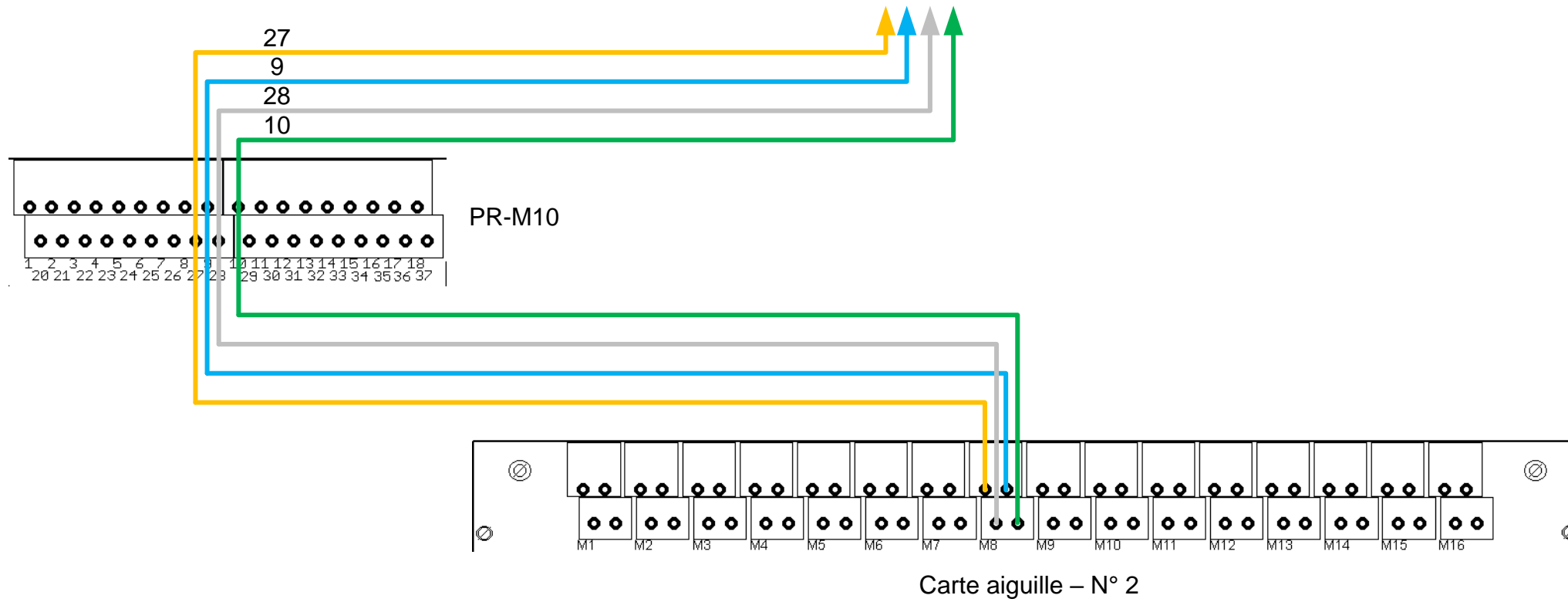
Feuille : 3-02-06

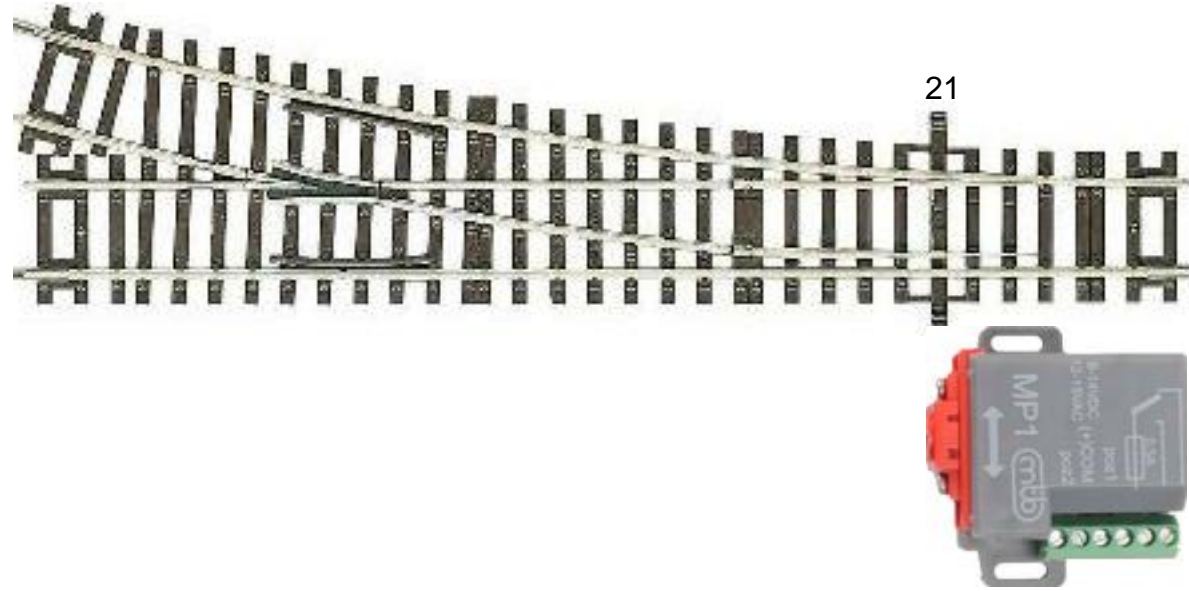


20

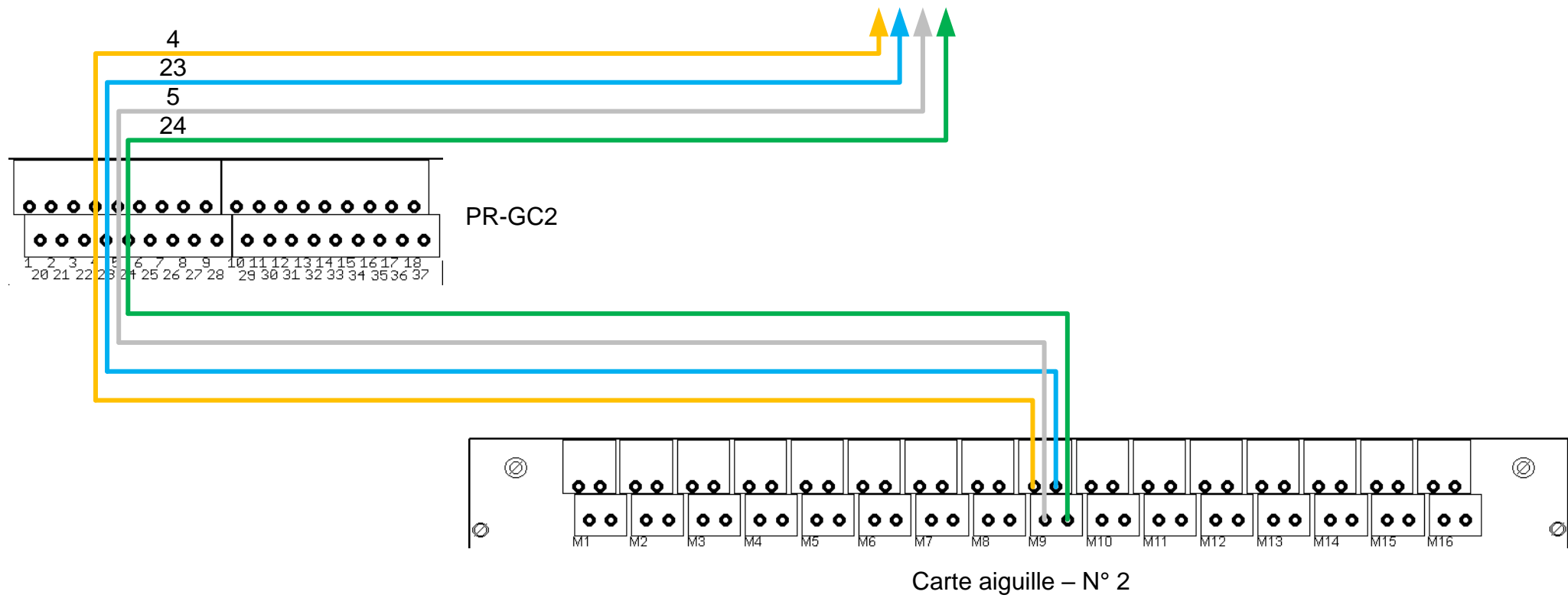


Voir principes de raccordement des moteurs MP1





Voir principes de raccordement des moteurs MP1

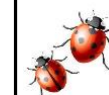


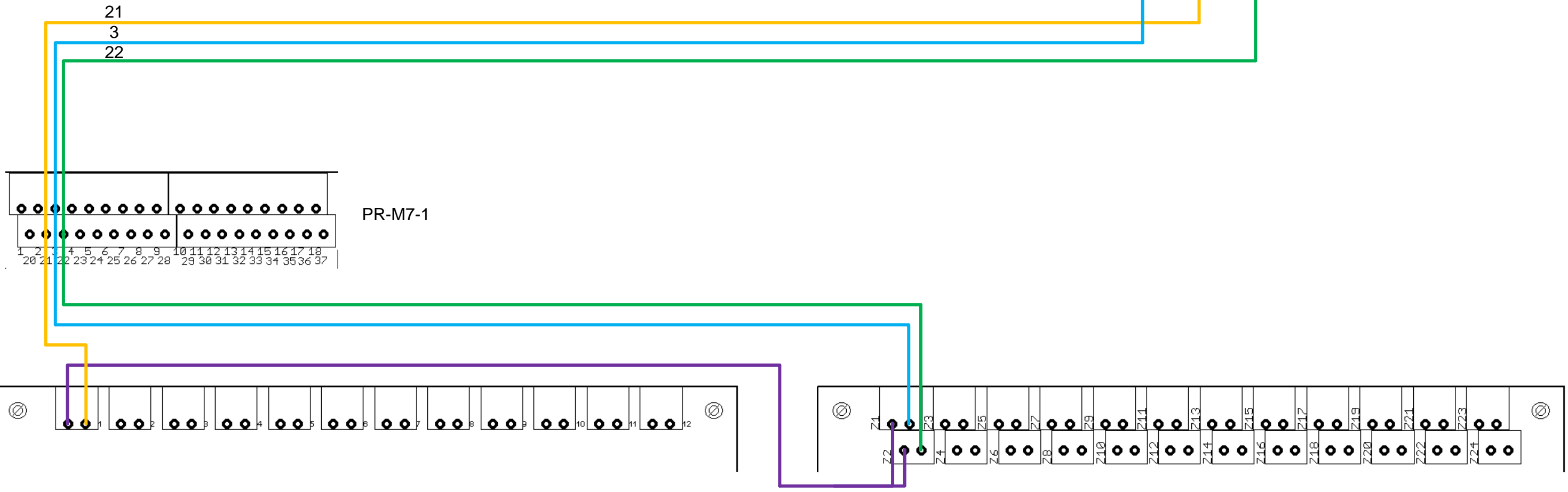
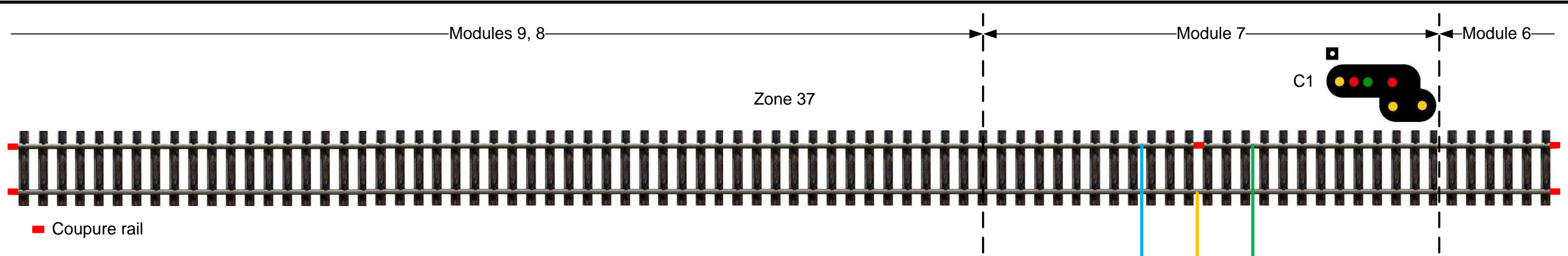
Câblage des zones

| Voies | N° de schéma |
|-------|--------------|
| D1 | 4-01-09 |
| D2 | 4-01-10 |
| D3 | 4-01-11 |
| G12 | 4-04-08 |
| G14 | 4-04-07 |
| G21 | 4-01-06 |
| G23 | 4-01-07 |
| M2 | 4-04-02 |
| S1 | 4-03-07 |
| S2 | 4-03-10 |
| V1 | 4-02-10 |
| V2 | 4-02-12 |
| V3 | 4-02-09 |
| V4 | 4-02-11 |
| VM | 4-03-04 |
| Z5 | 4-02-04 |
| Z7 | 4-02-05 |
| Z8 | 4-02-07 |
| Z9 | 4-02-06 |
| Z10 | 4-01-08 |
| Z12 | 4-01-02 |
| Z12 | 4-01-04 |
| Z14 | 4-03-08 |
| Z16 | 4-03-11 |
| Z18a | 4-04-09 |
| Z18b | 4-04-09 |
| Z20 | 4-04-11 |
| Z21 | 4-04-04 |
| Z22 | 4-04-06 |
| Z24 | 4-04-01 |
| Z29 | 4-04-10 |
| Z31 | 4-04-12 |
| Z33 | 4-04-03 |
| Z34 | 4-03-09 |
| Z35 | 4-01-01 |
| Z35 | 4-01-12 |
| Z35 | 4-03-05 |
| Z36 | 4-03-03 |

| Appareils | N° de schéma |
|-----------|--------------|
| 1 | 4-01-03 |
| 2 | 4-01-04 |
| 3 | 4-02-03 |
| 4 | 4-01-05 |
| 5 | 4-02-03 |
| 6 | 4-01-05 |
| 7 | 4-02-02 |
| 8 | 4-02-01 |
| 9 | 4-02-08 |
| 10 | 4-02-08 |
| 12 | 4-02-08 |
| 13 | 4-03-01 |
| 14 | 4-04-04 |
| 15 | 4-03-12 |
| 16 | 4-03-02 |
| 18 | 4-03-06 |
| 19 | 4-04-05 |
| 21 | 4-04-05 |

| Signaux | N° de schéma |
|---------|--------------|
| C1 | 4-01-01 |
| C2 | 4-03-03 |
| C3 | 4-01-06 |
| C5 | 4-01-07 |
| C6 | 4-02-11 |
| C8 | 4-02-12 |
| C9 | 4-01-12 |
| C11 | 4-02-01 |
| C12 | 4-01-08 |
| C13 | 4-02-04 |
| C15 | 4-02-05 |
| C17 | 4-02-06 |
| C19 | 4-02-09 |
| C21 | 4-02-10 |
| C24 | 4-04-06 |
| C26 | 4-04-07 |
| C28 | 4-04-08 |
| C29 | 4-04-04 |
| C30 | 4-04-01 |
| CvD1 | 4-01-09 |
| CvD2 | 4-01-10 |
| CvD3 | 4-01-11 |
| Cv4 | 4-03-07 |
| Cv23 | 4-03-04 |
| Cv25 | 4-03-07 |
| Cv27 | 4-03-10 |
| Cv32 | 4-04-02 |
| Cv34 | 4-03-10 |
| S7 | 4-01-04 |
| S10 | 4-02-07 |
| S14 | 4-01-02 |
| S16 | 4-03-08 |
| S18 | 4-03-11 |
| S20 | 4-04-09 |
| S22 | 4-04-11 |
| S31 | 4-04-10 |
| S33 | 4-04-12 |
| S35 | 4-04-03 |
| S36 | 4-03-09 |
| S37 | 4-03-05 |

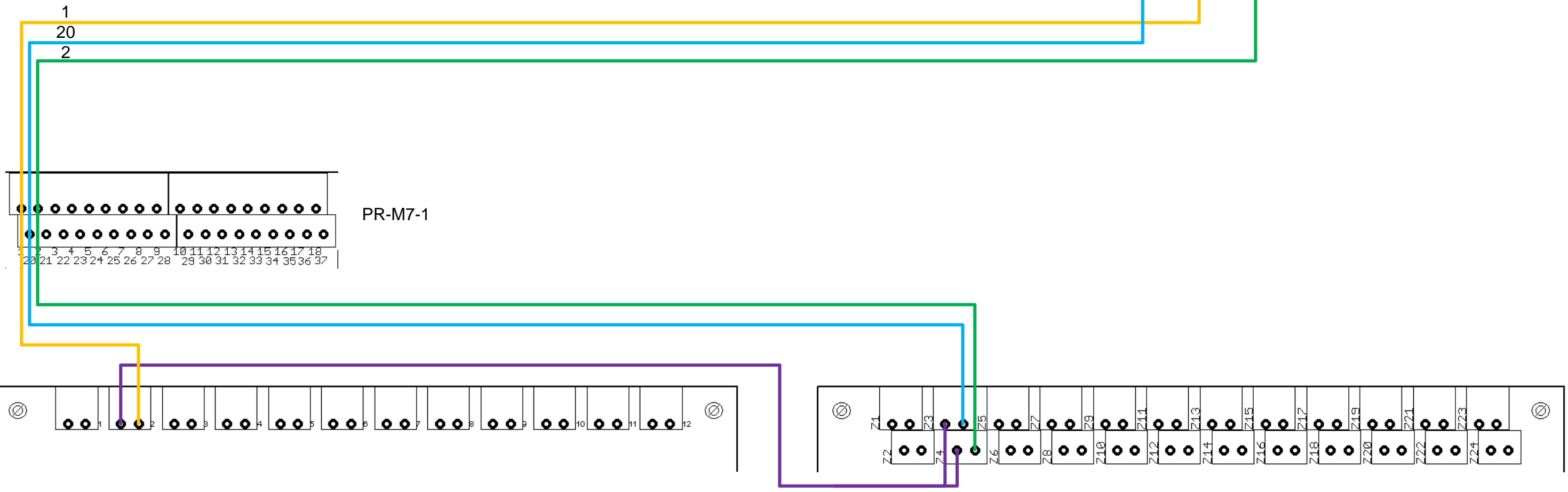
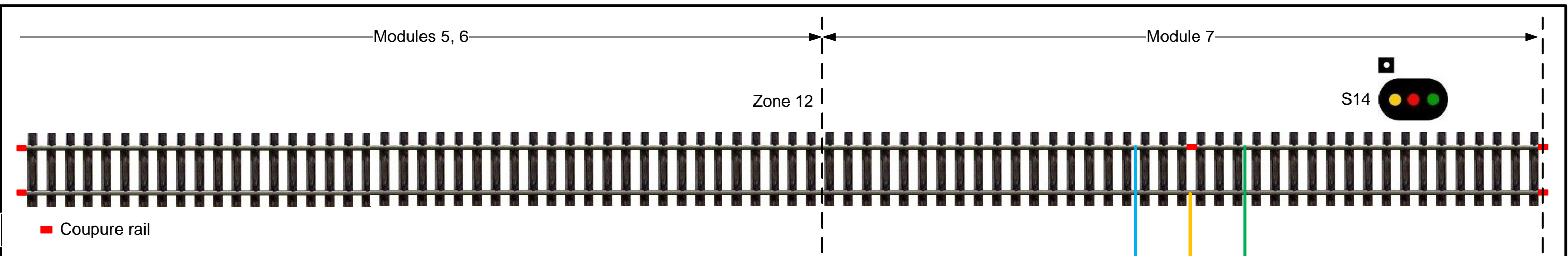




Carte 12 zones analogique/DCC – N°1

Carte 24 détections - N°1

| | |
|--|-------------------------------------|
| | <p>Ladybird – Réseau BOB-TEE 91</p> |
| <p>Zone 37 – Signal C1</p> <p>20/10/2022</p> <p style="text-align: right;">4-01-01</p> | |

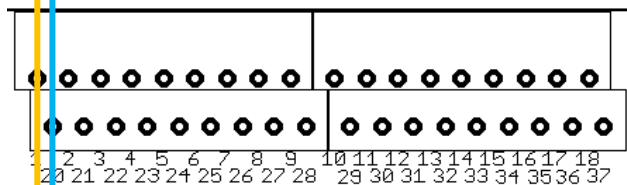
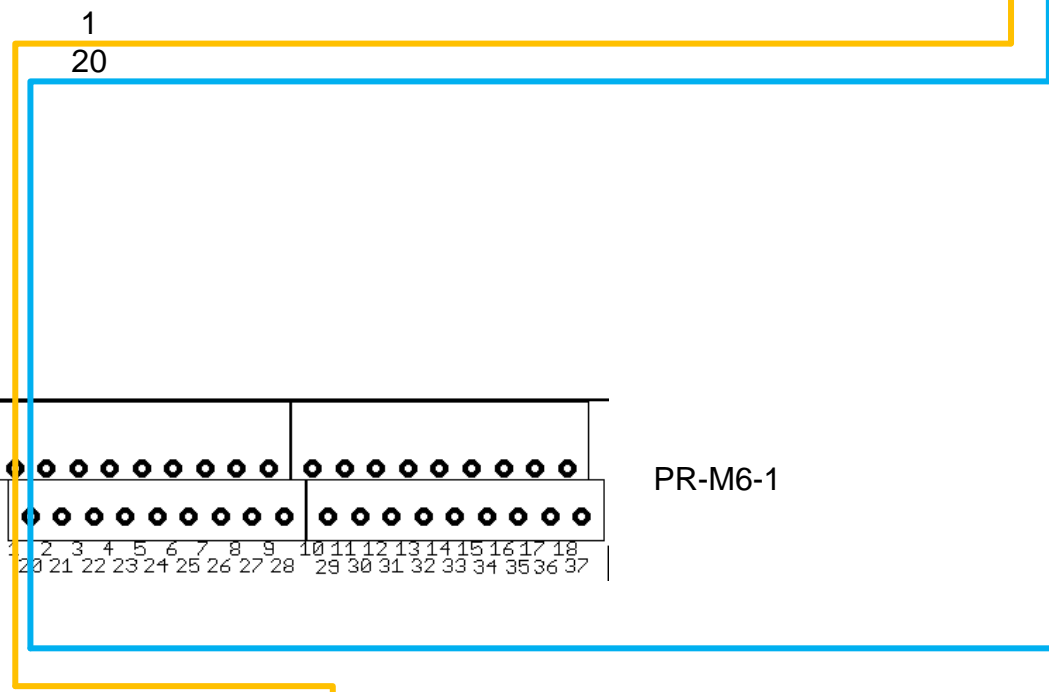


| | |
|----------------------|------------------------------|
| | Ladybird – Réseau BOB-TEE 91 |
| Zone 12 – Signal S14 | |
| 04/10/2022 | 4-01-02 |

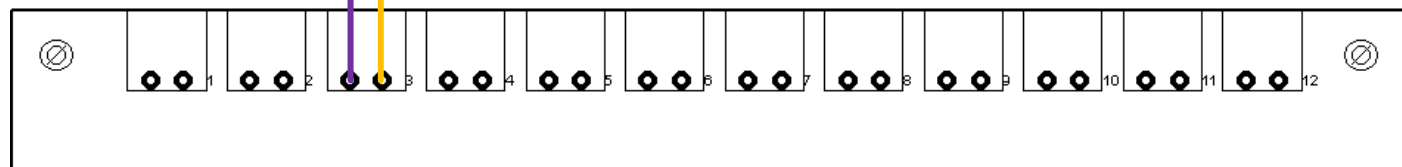
■ Coupure rail



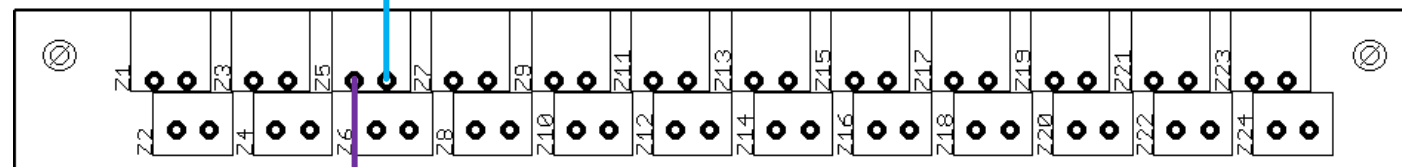
1



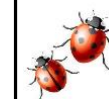
PR-M6-1



Carte 12 zones analogique/DCC – N°1



Carte 24 détections - N°1



Ladybird – Réseau BOB-TEE 91

Branchement 1

20/10/2022

4-01-03

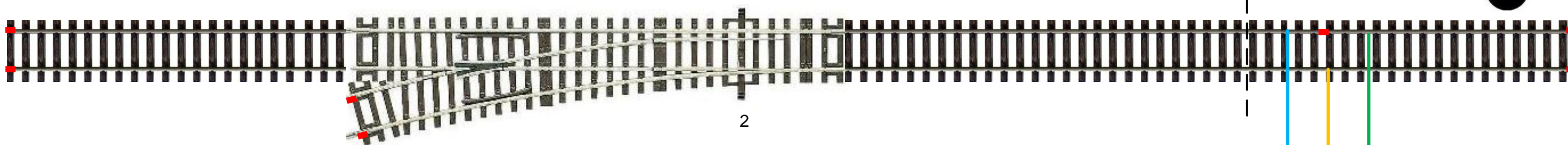
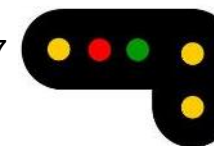
■ Coupure rail

Modules 6, 5, 4, 3

Module 2

Zone 1

S7

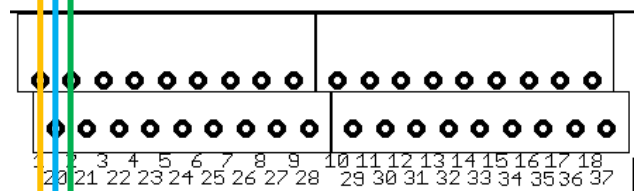


2

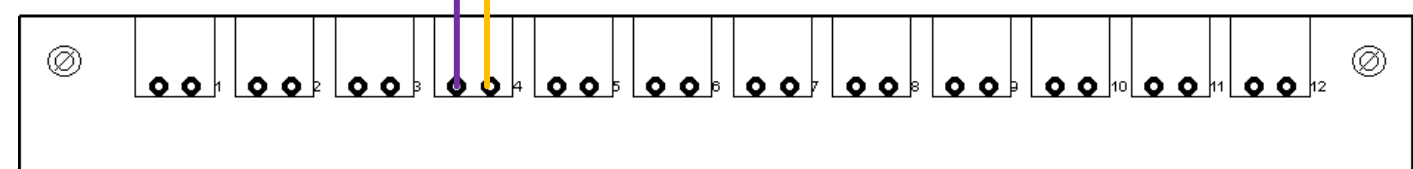
1

20

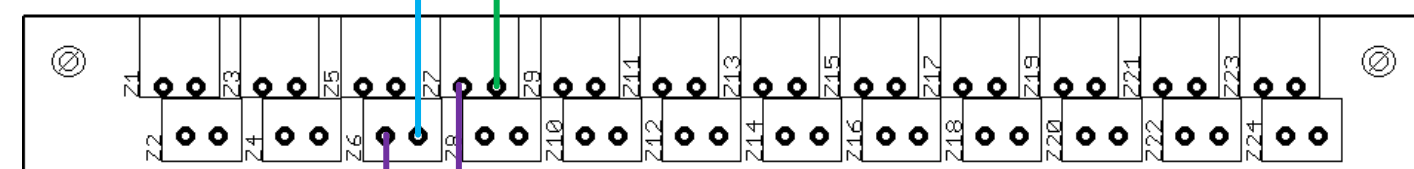
2



PR-M2



Carte 12 zones analogique/DCC – N°1



Carte 24 détections - N°1



Ladybird – Réseau BOB-TEE 91

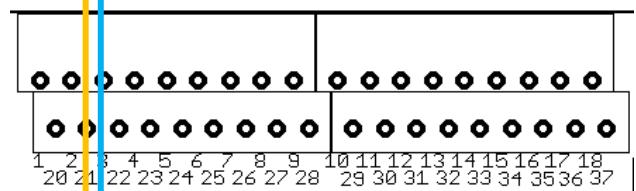
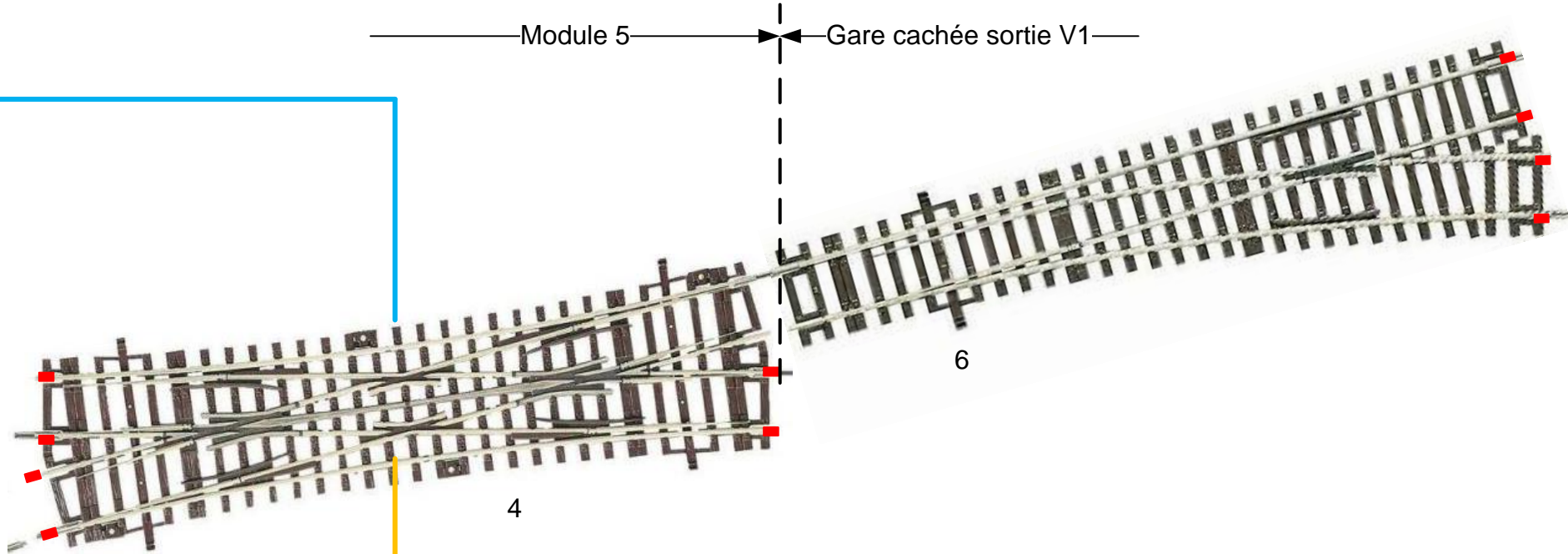
Signal S7 – Zone 1 – Branchement 2

20/10/2022

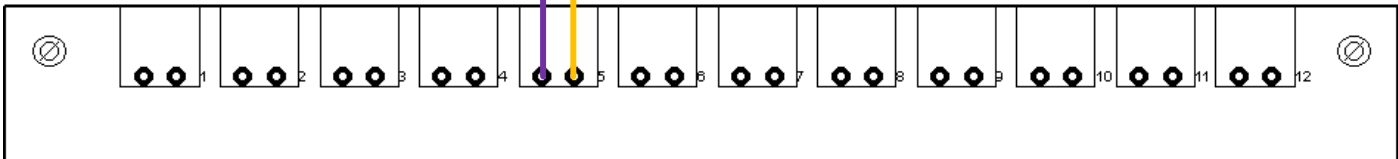
4-01-04

■ Coupure rail

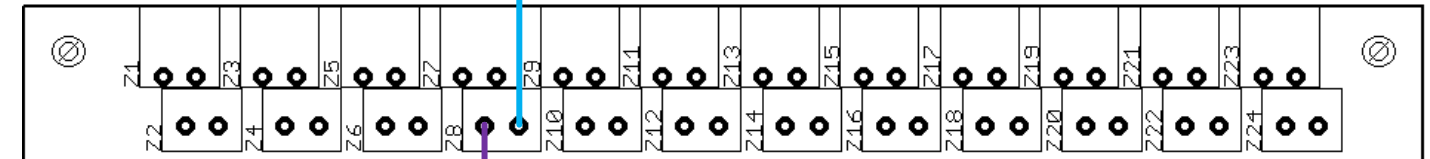
Module 5 ← | → Gare cachée sortie V1



PR-M5-1



Carte 12 zones analogique/DCC – N°1



Carte 24 détections - N°1



Ladybird – Réseau BOB-TEE 91

TJS 4 - Branchement 6

04/10/2022

4-01-05

Voie G21

C3



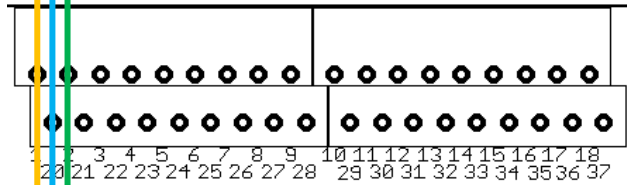
Coupure rail



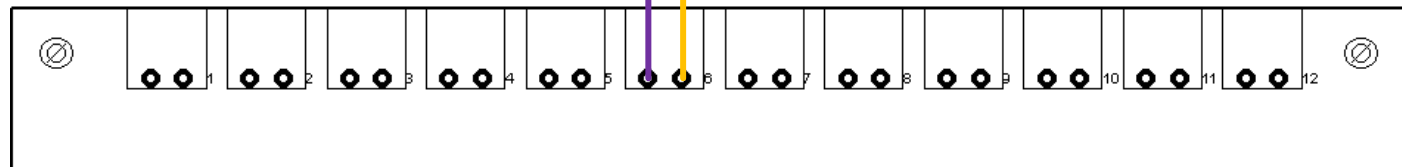
1

20

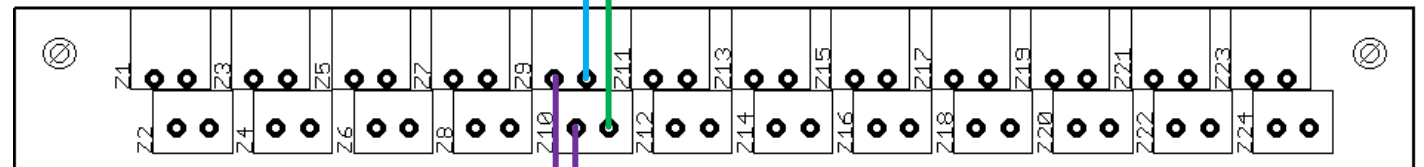
2



PR-GC1



Carte 12 zones analogique/DCC – N°1



Carte 24 détections - N°1



Ladybird – Réseau BOB-TEE 91

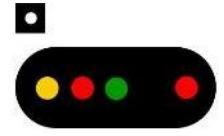
Voie G21 – Signal C3

04/10/2022

4-01-06

Voie G23

C5



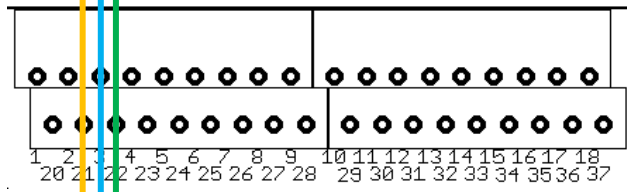
Coupure rail



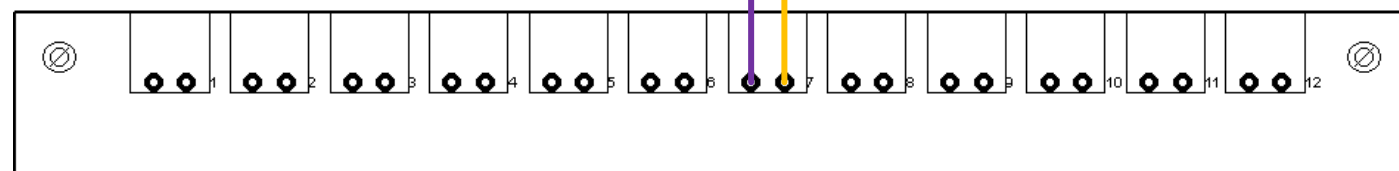
21

3

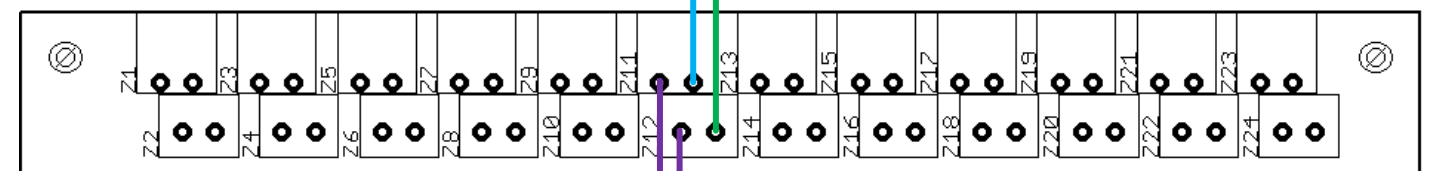
22



PR-GC1



Carte 12 zones analogique/DCC – N°1



Carte 24 détections - N°1



Ladybird – Réseau BOB-TEE 91

Voie G23 – Signal C5

04/10/2022

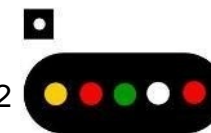
4-01-07

Modules 1, 2, 3, 4

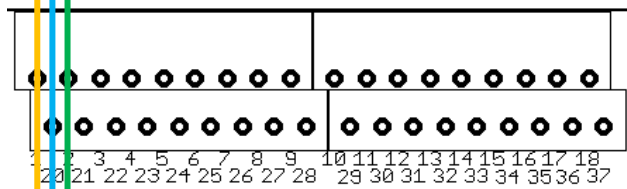
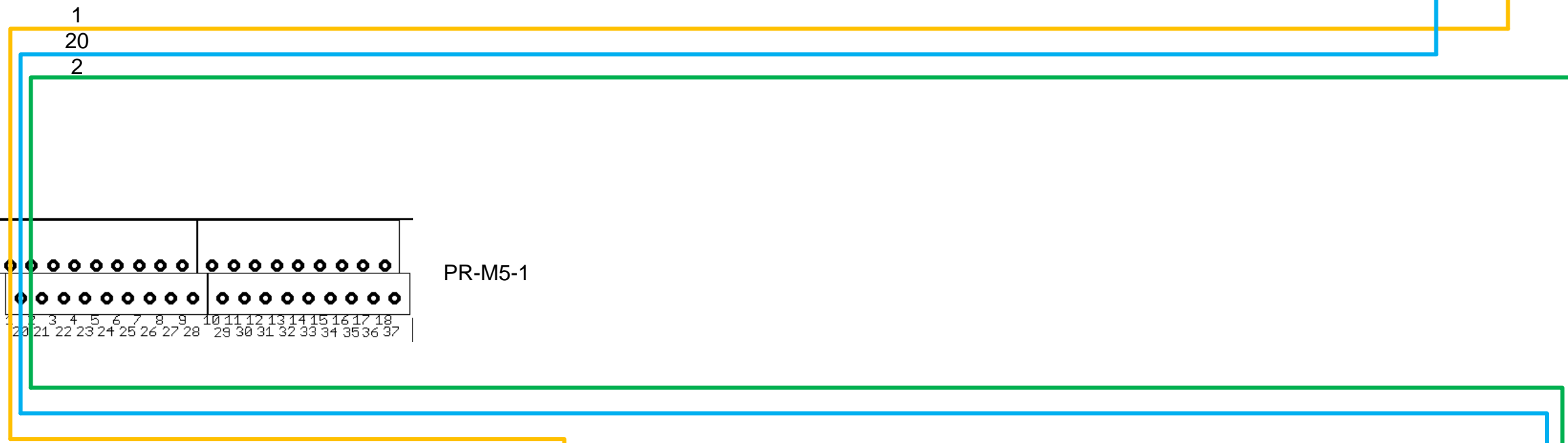
Module 5

Zone 10

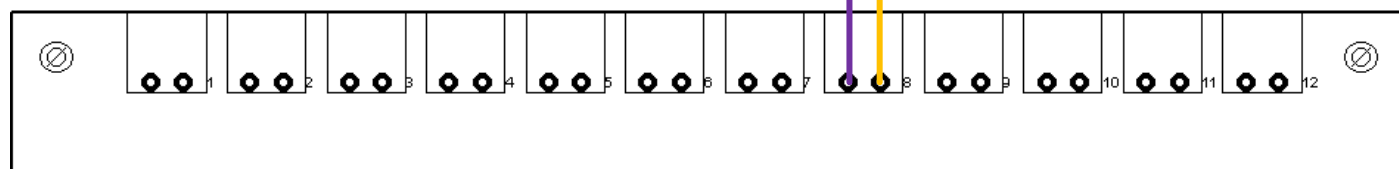
C12



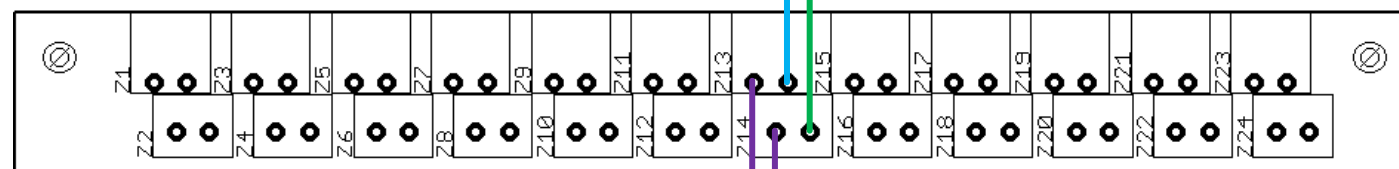
Coupure rail



PR-M5-1



Carte 12 zones analogique/DCC – N°1



Carte 24 détections - N°1



Ladybird – Réseau BOB-TEE 91

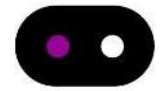
Zone 10 – Signal C12

04/10/2022

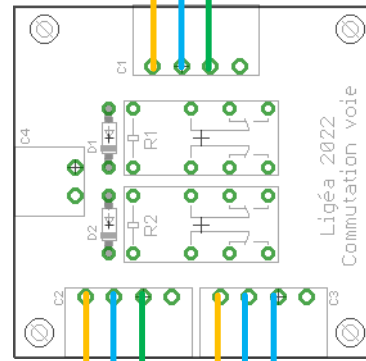
4-01-08

Voie D1

CvD1

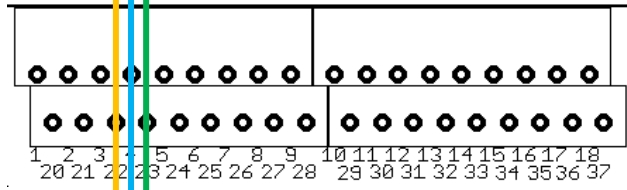


Coupure rail

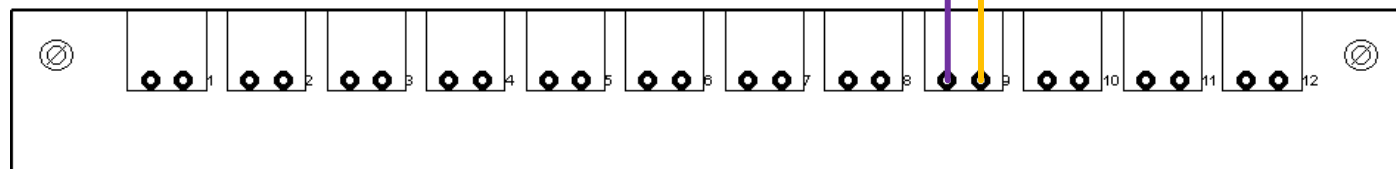


Carte de commutation

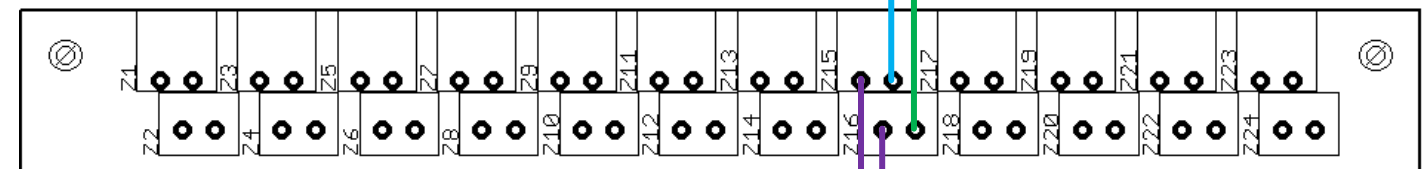
Vers pupitre Dépôt



PR-M5-1



Carte 12 zones analogique/DCC – N°1



Carte 24 détections - N°1

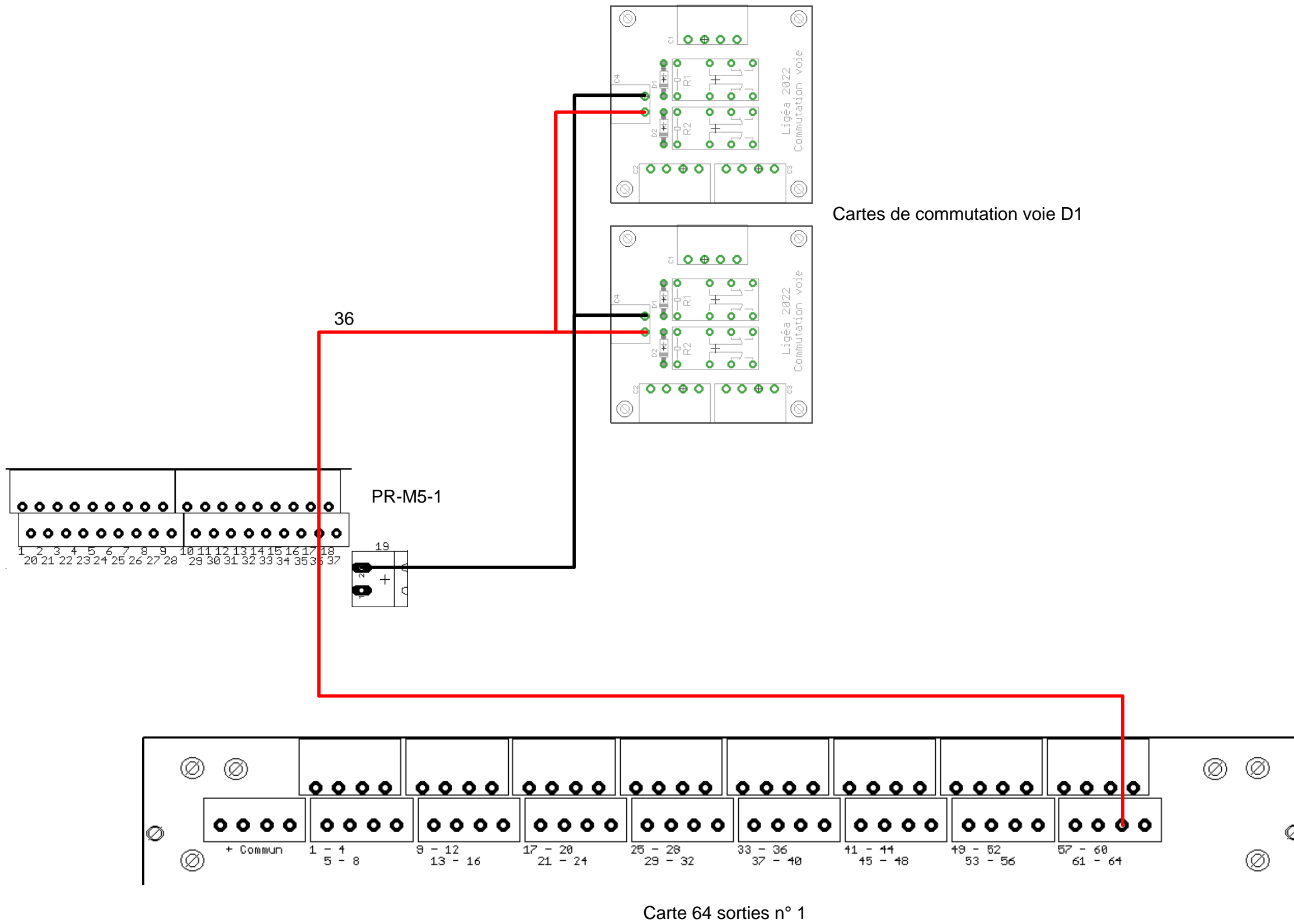


Ladybird – Réseau BOB-TEE 91

Voie D1 – Signal CvD1

25/12/2022

4-01-09a



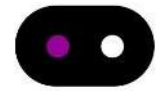
Cartes de commutation voie D1

Carte 64 sorties n° 1

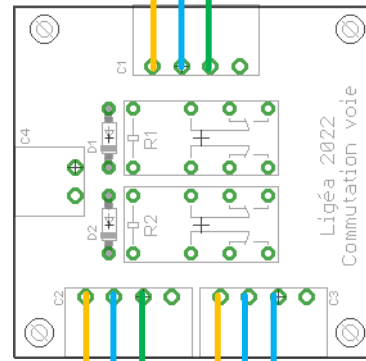


Voie D2

CvD2

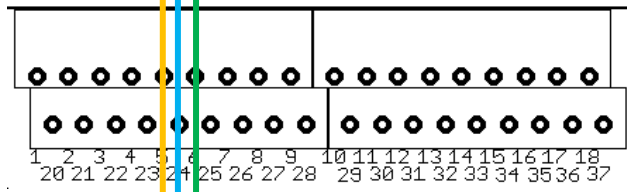


Coupure rail

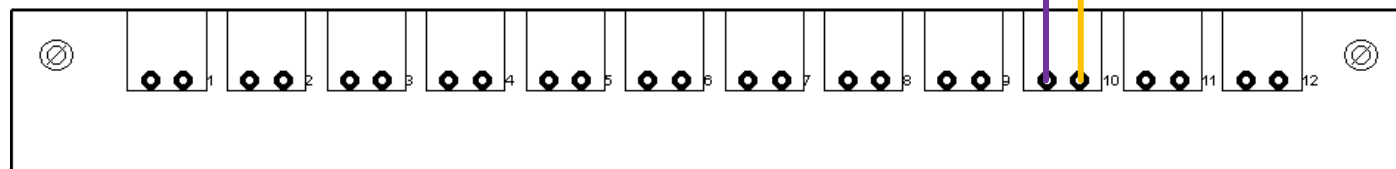


Carte de commutation

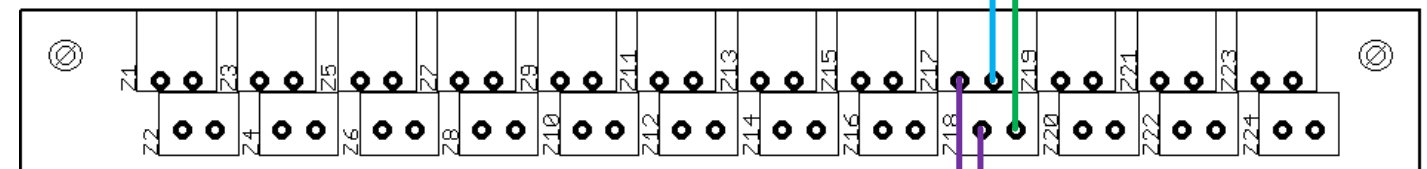
Vers pupitre Dépôt



PR-M5-1



Carte 12 zones analogique/DCC – N°1



Carte 24 détections - N°1

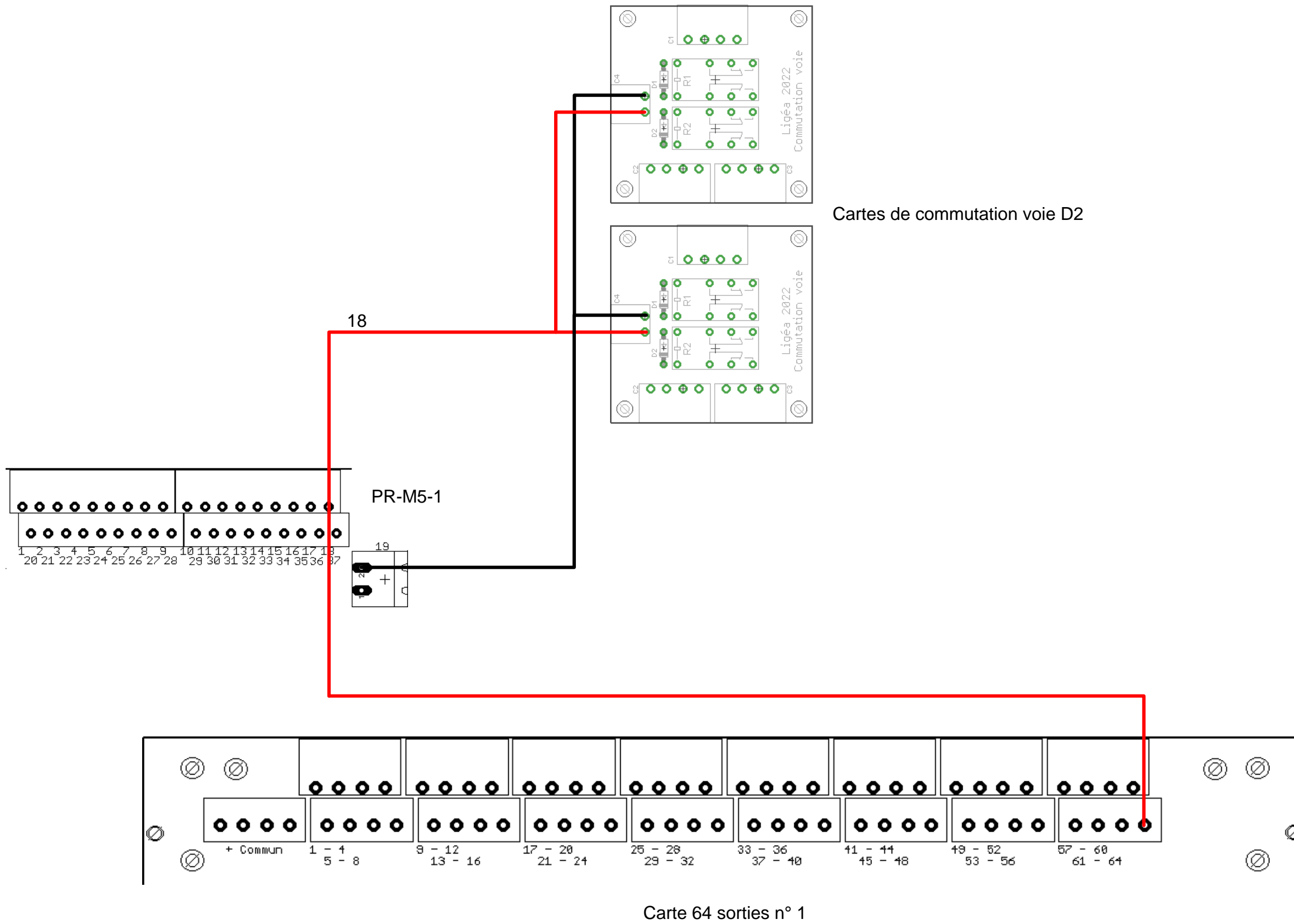


Ladybird – Réseau BOB-TEE 91

Voie D2 – Signal CvD2

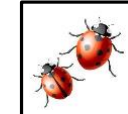
25/12/2022

4-01-10a



Cartes de commutation voie D2

Carte 64 sorties n° 1

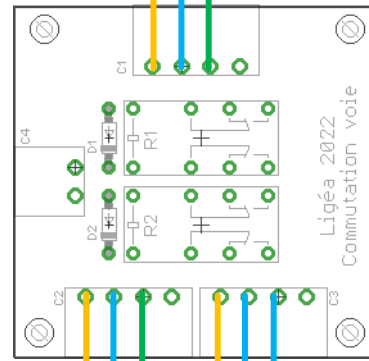


Voie D3

CvD3



Coupure rail



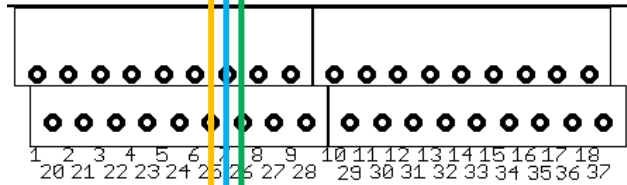
Carte de commutation

25

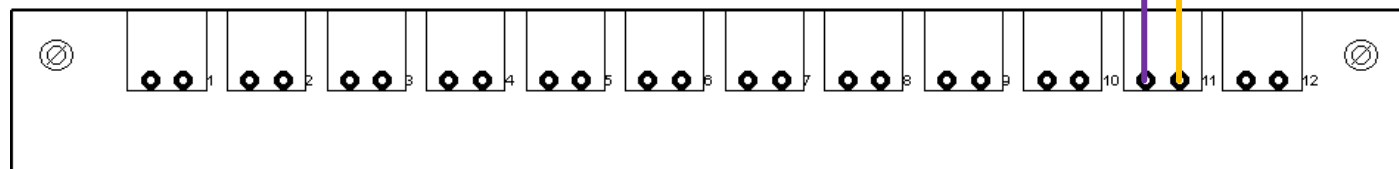
7

26

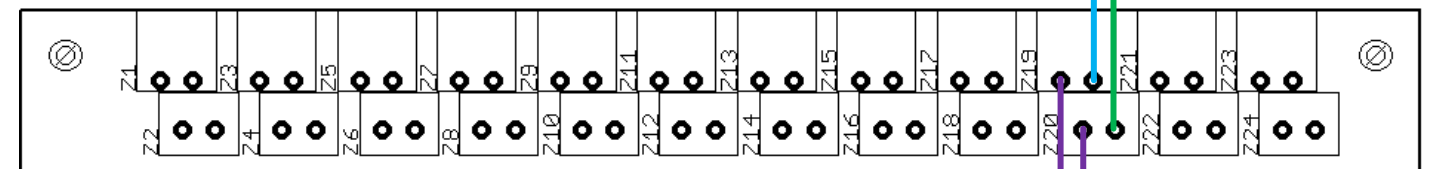
Vers pupitre Dépôt



PR-M5-1



Carte 12 zones analogique/DCC – N°1



Carte 24 détections - N°1

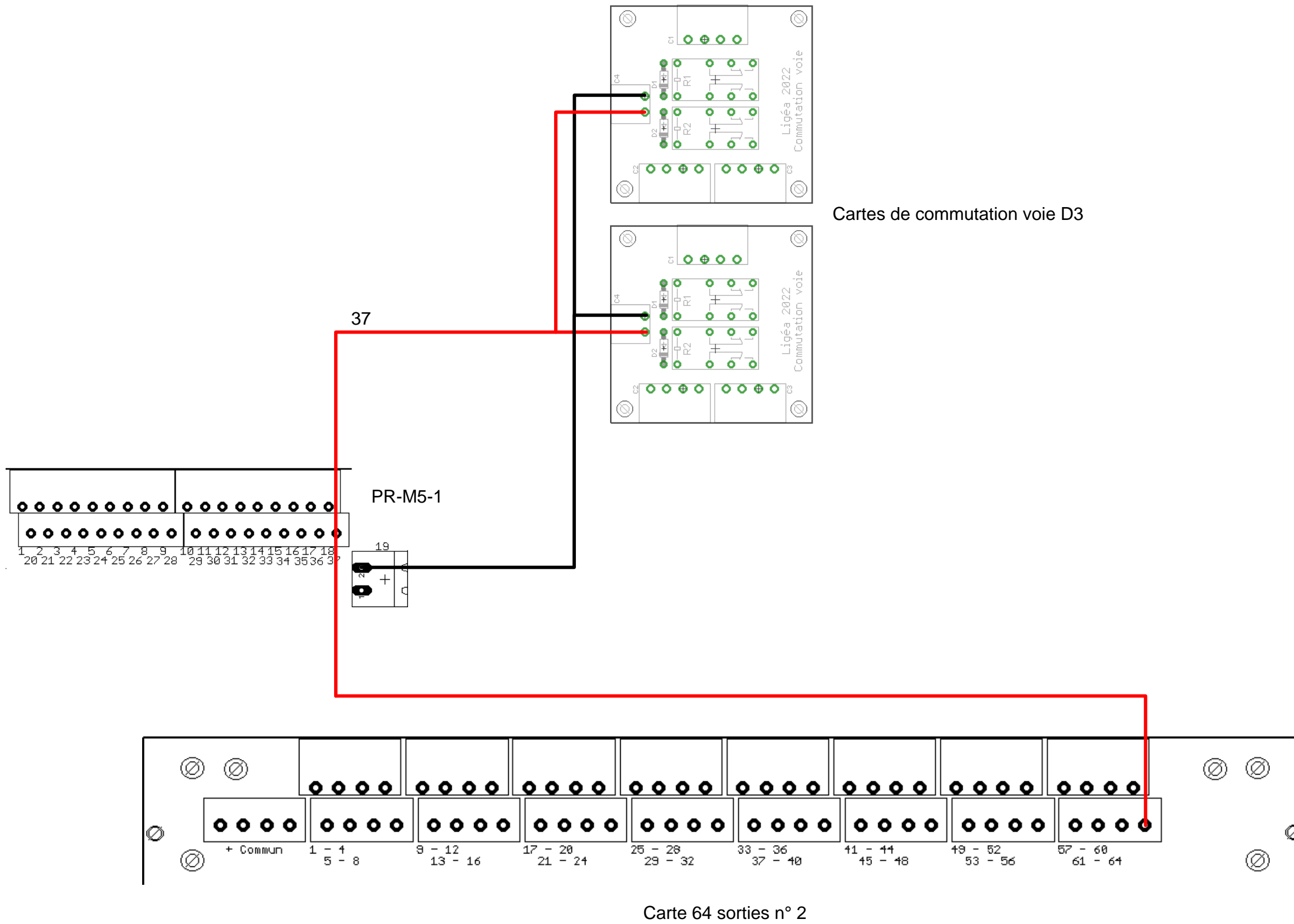


Ladybird – Réseau BOB-TEE 91

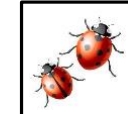
Voie D3 – Signal CvD3

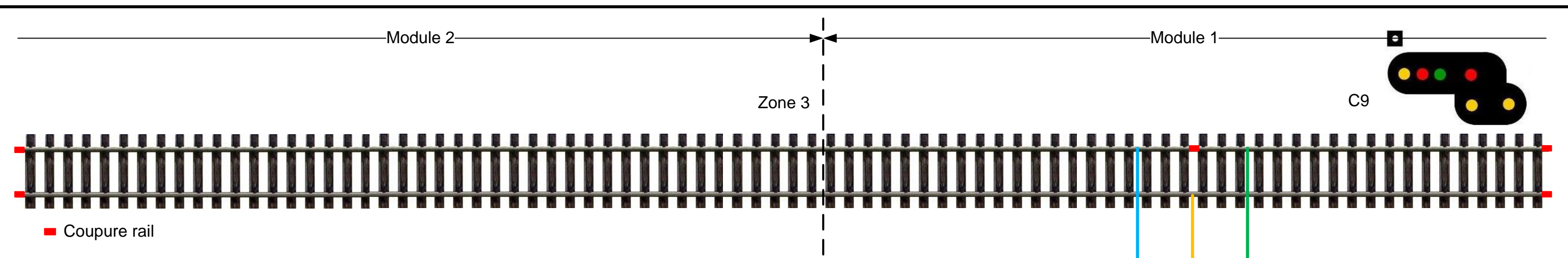
25/12/2022

4-01-11a

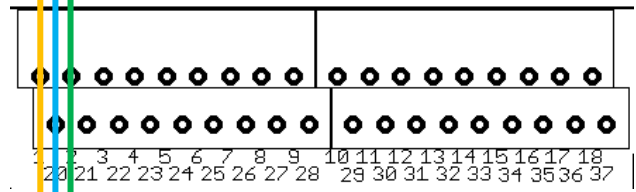
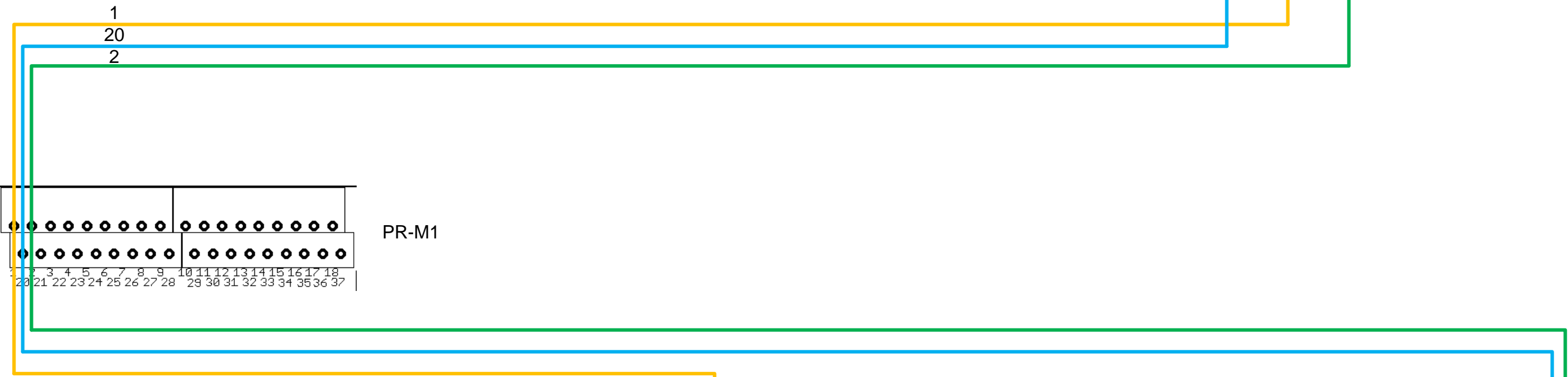


Cartes de commutation voie D3

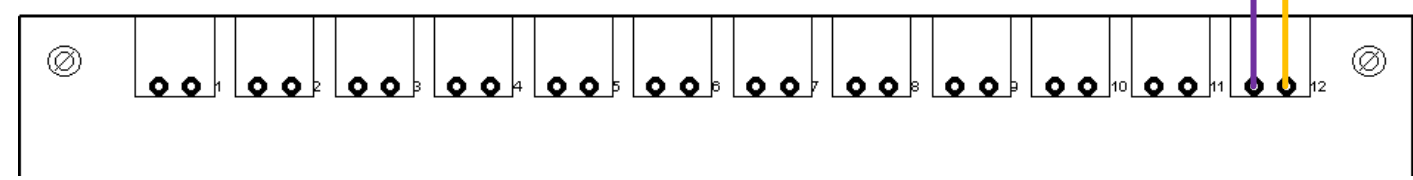




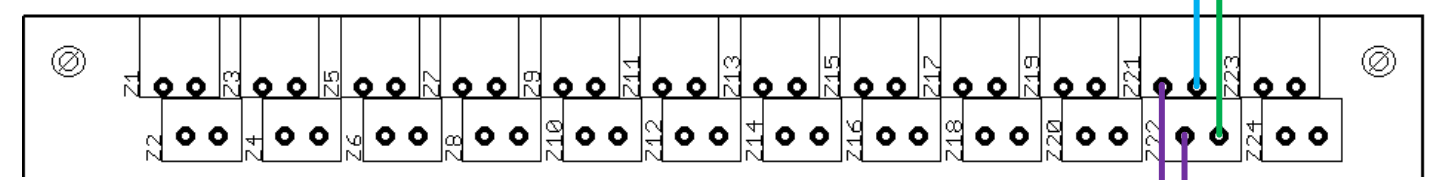
■ Coupure rail



PR-M1



Carte 12 zones analogique/DCC – N°1

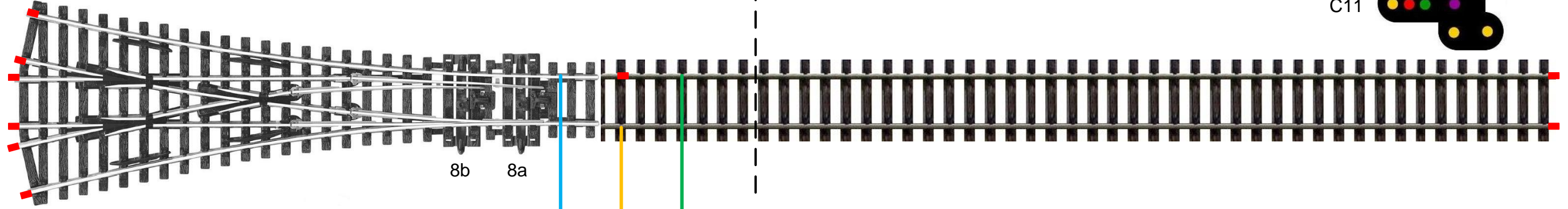
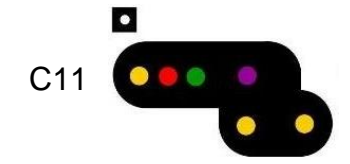


Carte 24 détections - N°1

| | |
|---------------------------|-------------------------------------|
| | <p>Ladybird – Réseau BOB-TEE 91</p> |
| <p>Zone 3 – Signal C9</p> | |
| <p>12/12/2022</p> | <p>4-01-12</p> |

Module 5

Module 6



■ Coupure rail

8

27

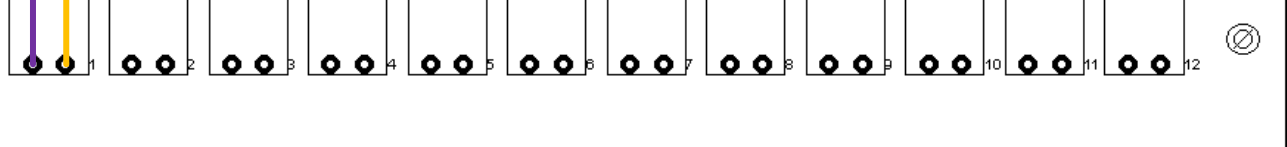
9

8b

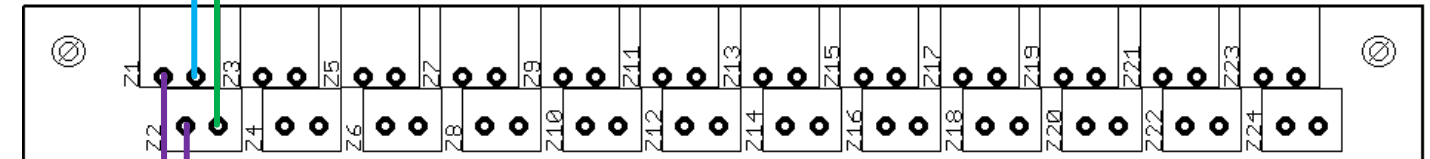
8a

PR-M5-1

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |



Carte 12 zones analogique/DCC – N°2



Carte 24 détections - N°2



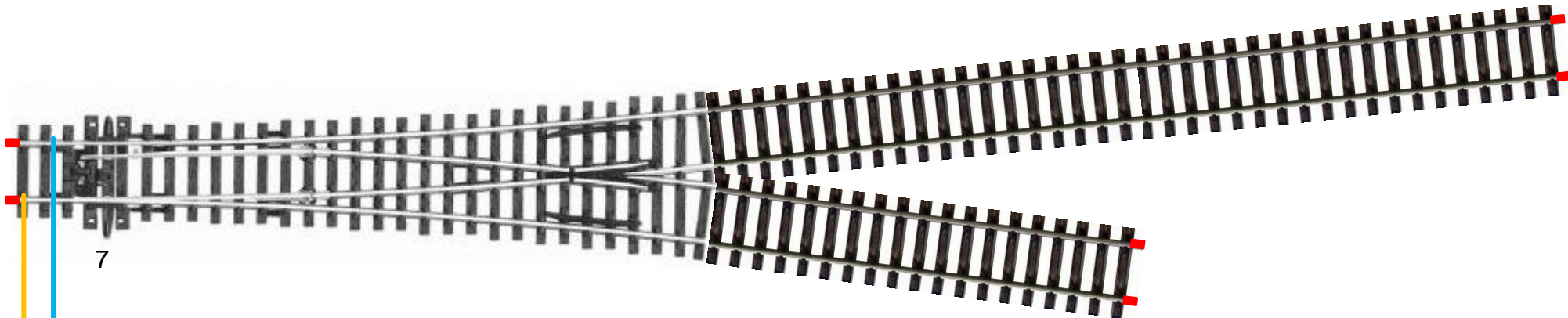
Ladybird – Réseau BOB-TEE 91

Branchement triple 8 – Signal C11

04/10/2022

4-02-01

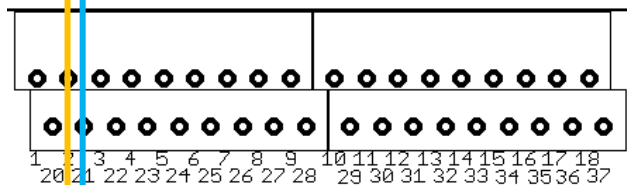
■ Coupure rail



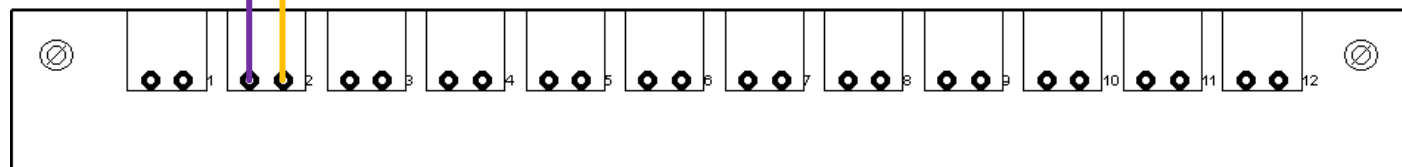
7

2

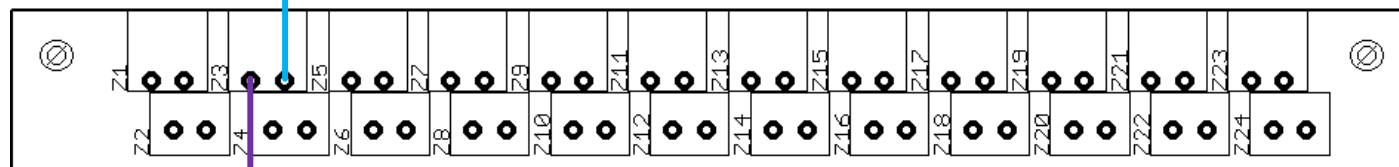
21



PR-M6-1



Carte 12 zones analogique/DCC – N°2



Carte 24 détections - N°2



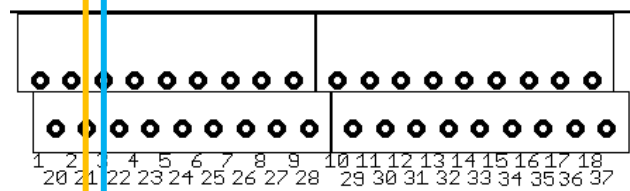
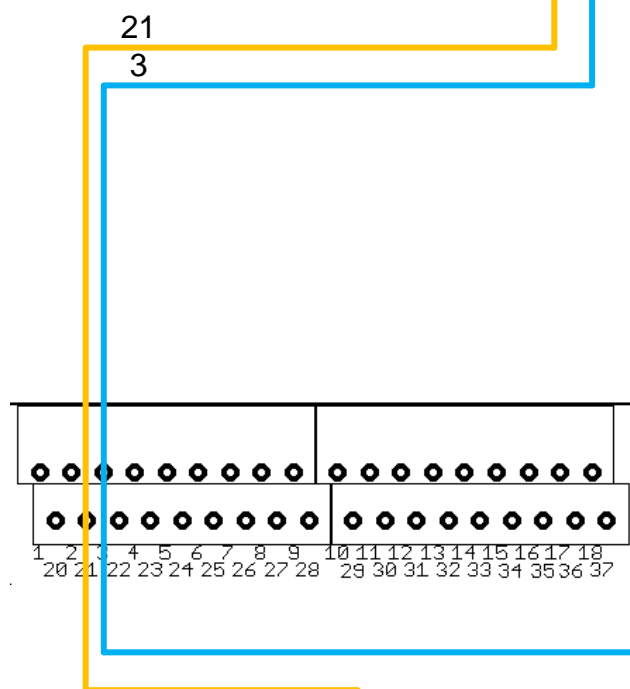
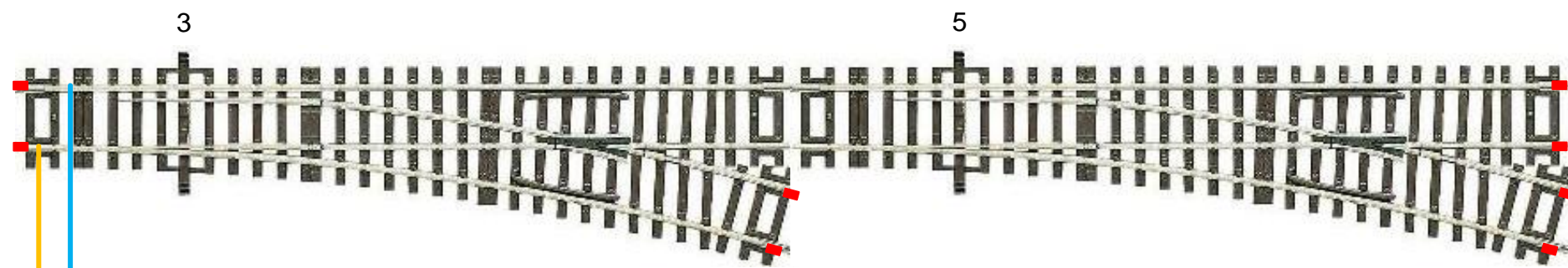
Ladybird – Réseau BOB-TEE 91

Branchement 7

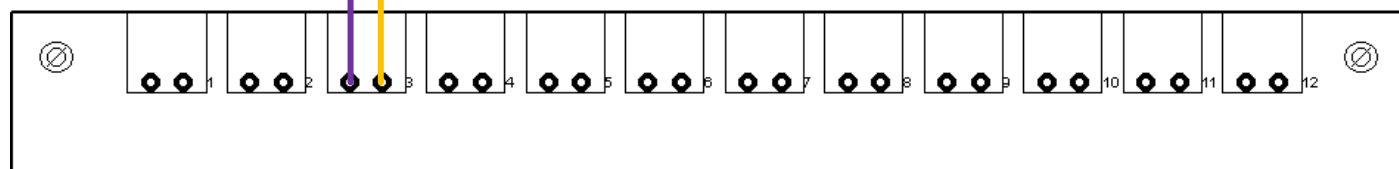
04/10/2022

4-02-02

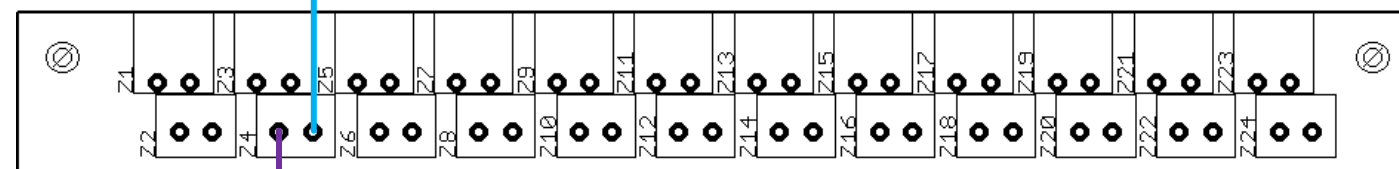
■ Coupure rail



PR-M1



Carte 12 zones analogique/DCC – N°2



Carte 24 détections - N°2



Ladybird – Réseau BOB-TEE 91

Branchements 3 – 5

04/10/2022

4-02-03

Modules 4, 5

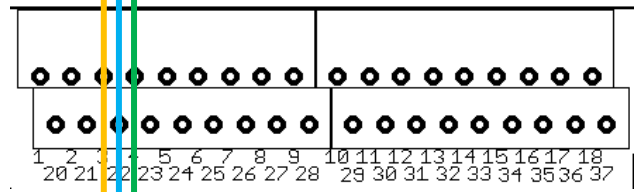
Module 6

Zone 5

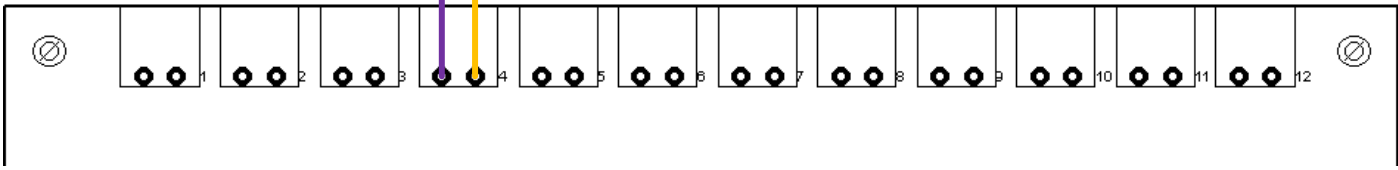
C13



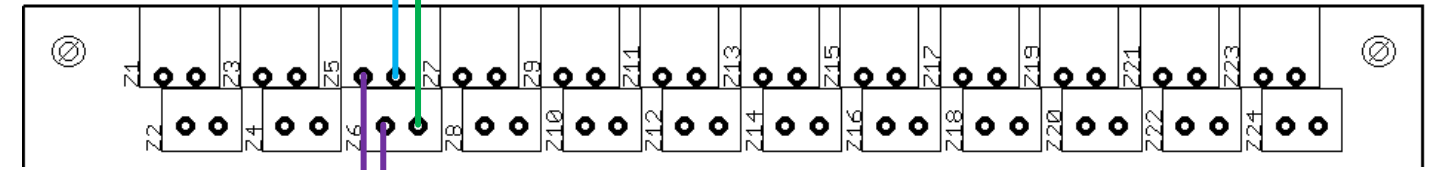
Coupure rail



PR-M6-1



Carte 12 zones analogique/DCC – N°2



Carte 24 détections - N°2



Ladybird – Réseau BOB-TEE 91

Zone 5 – Signal C13

04/10/2022

4-02-04

Modules 4, 5

Module 6

Zone 7

C15



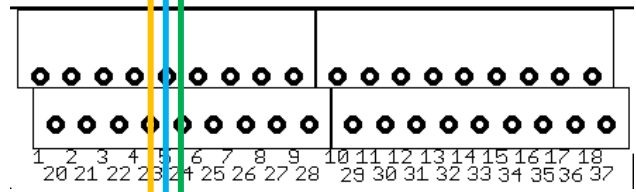
Coupure rail



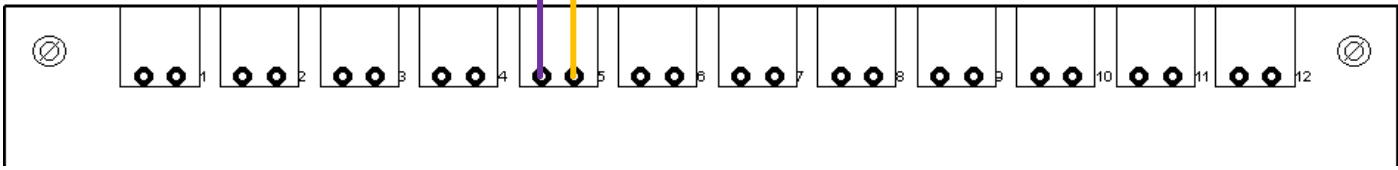
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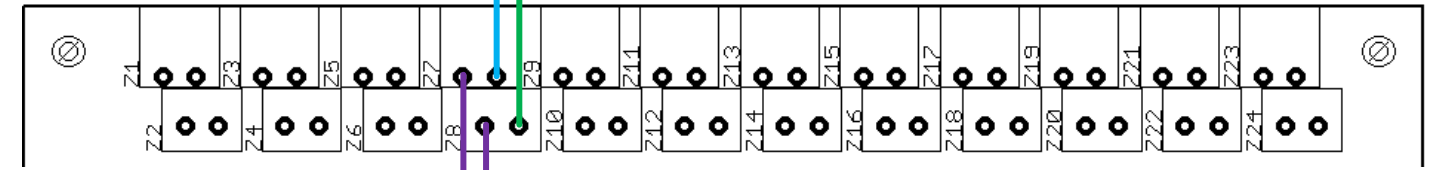
24



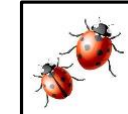
PR-M6-1



Carte 12 zones analogique/DCC – N°2



Carte 24 détections - N°2



Ladybird – Réseau BOB-TEE 91

Zone 7 – Signal C15

04/10/2022

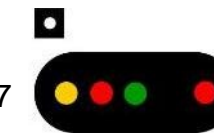
4-02-05

Modules 4, 5, 6

Module 7

Zone 9

C17

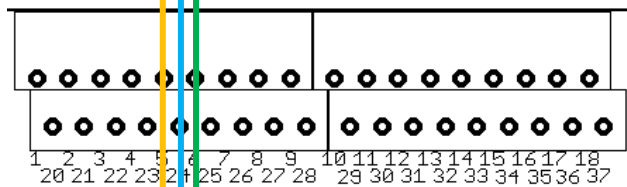


Coupure rail

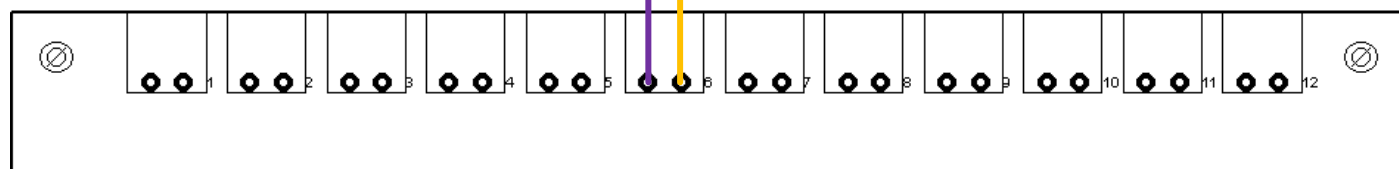
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24

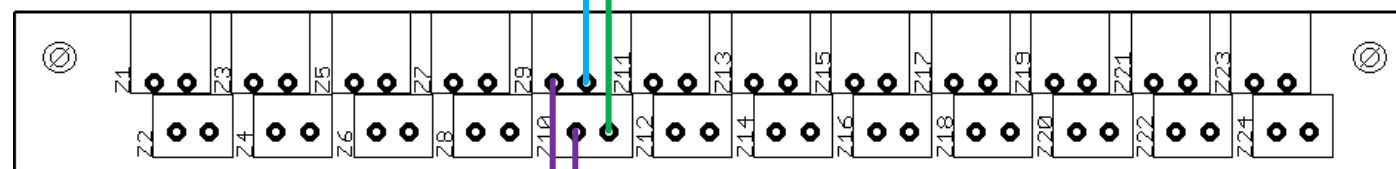
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PR-M7-1



Carte 12 zones analogique/DCC – N°2



Carte 24 détections - N°2



Ladybird – Réseau BOB-TEE 91

Zone 9 – Signal C17

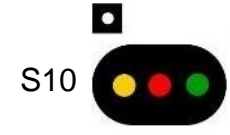
04/10/2022

4-02-06

Modules 7, 6, 5, 4

Module 1

Zone 8



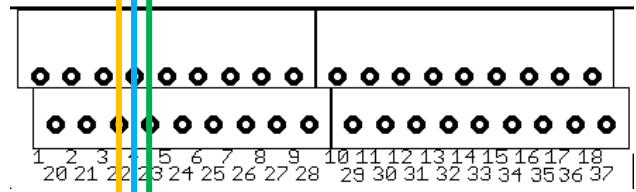
11

Coupure rail

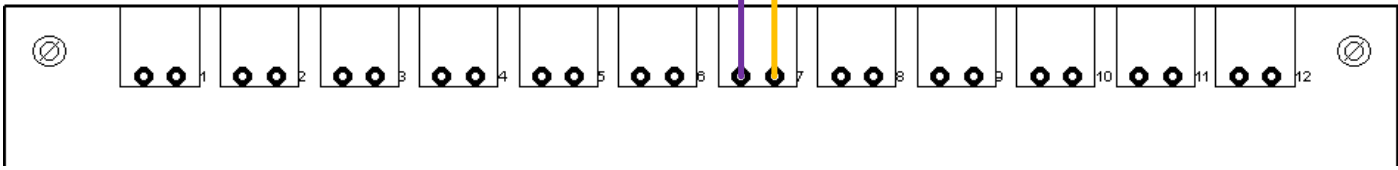
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4

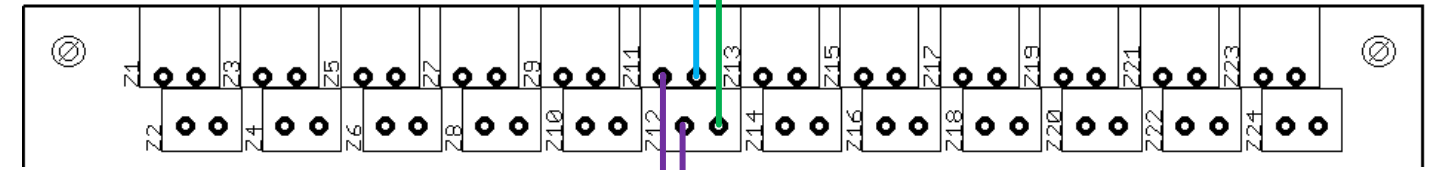
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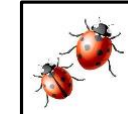
PR-M1



Carte 12 zones analogique/DCC – N°2



Carte 24 détections - N°2



Ladybird – Réseau BOB-TEE 91

Zone 8 – Signal S10

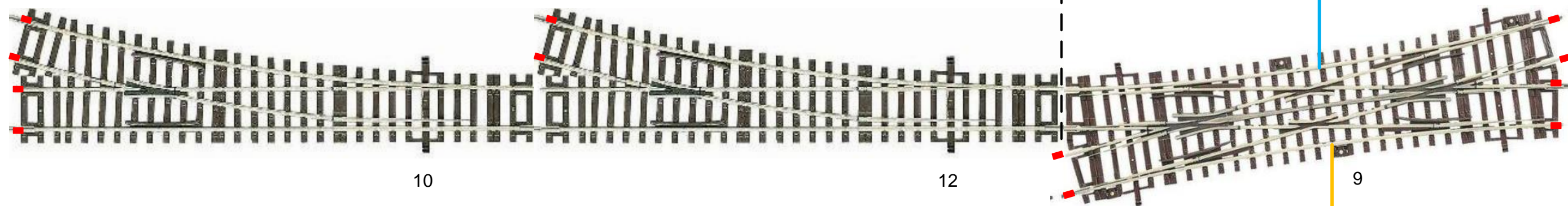
20/10/2022

4-02-07

■ Coupure rail

Module 6

Module 7



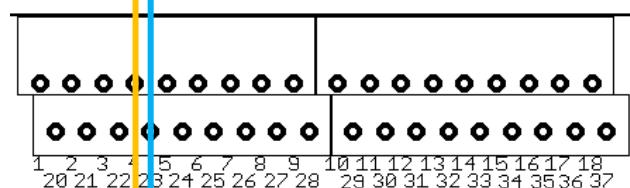
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12

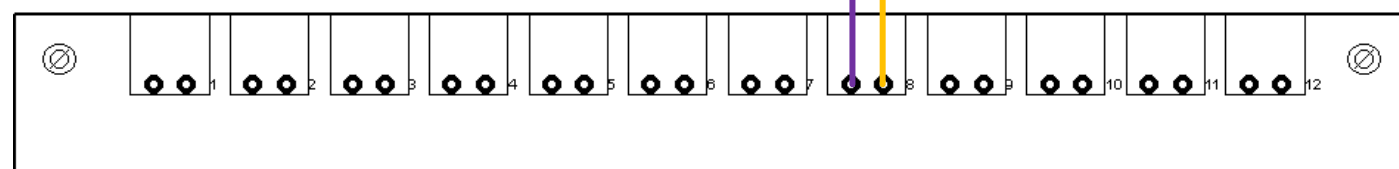
9

4

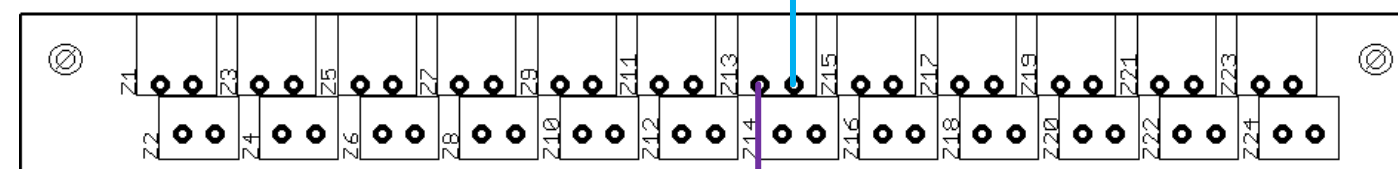
23



PR-M7-1



Carte 12 zones analogique/DCC – N°2



Carte 24 détections - N°2

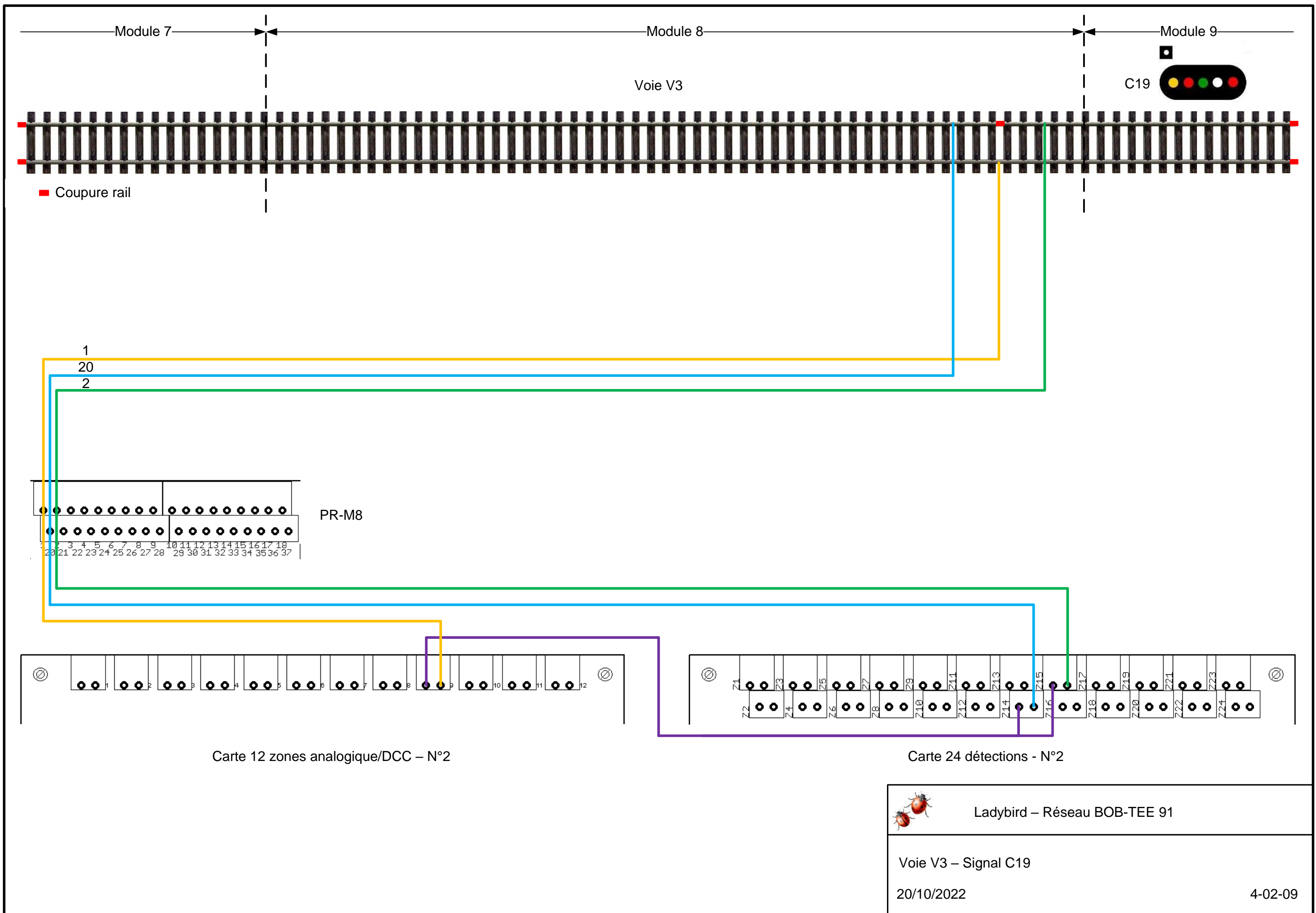


Ladybird – Réseau BOB-TEE 91

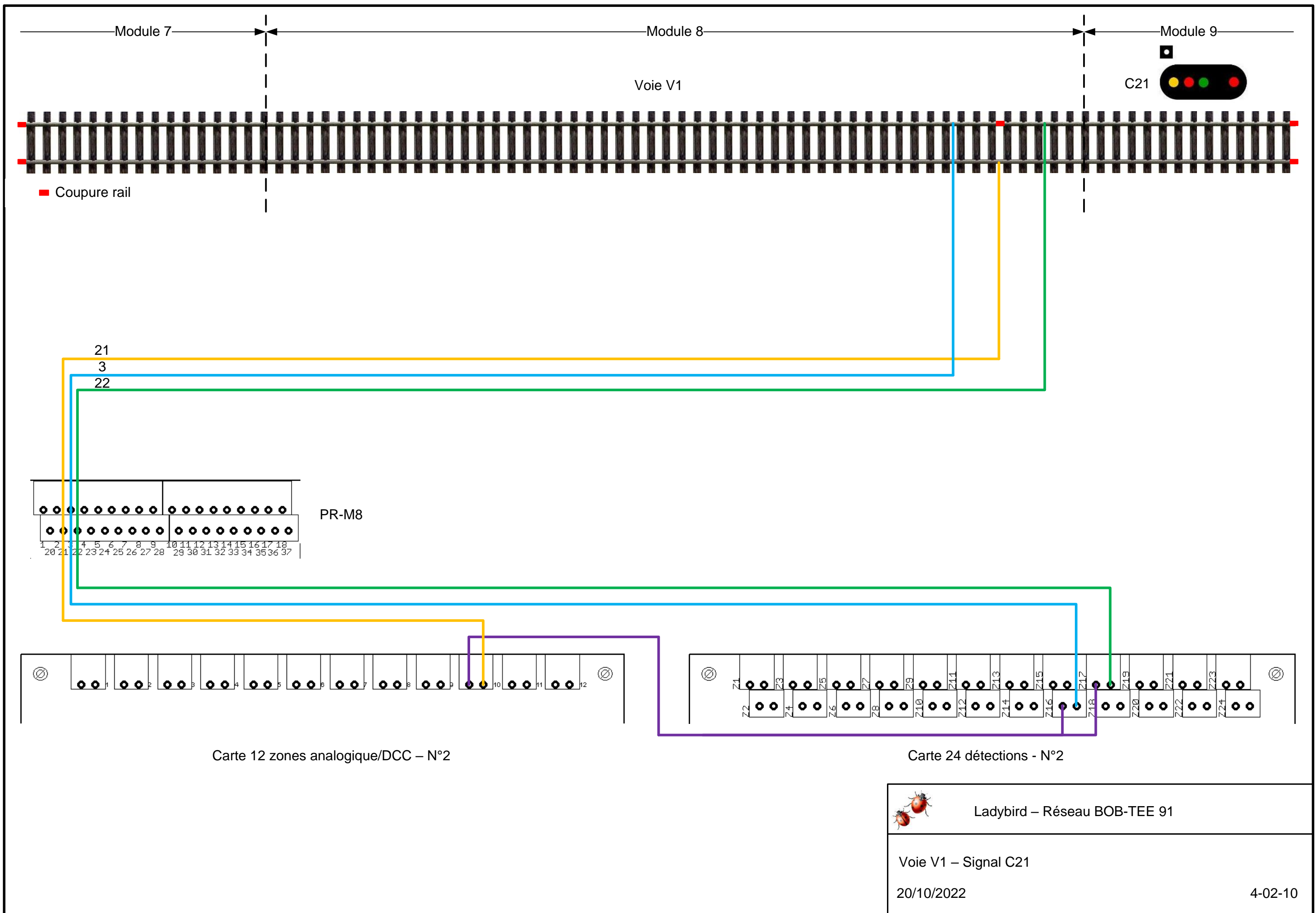
TJD 9 - Branchements 10 – 12

20/10/2022

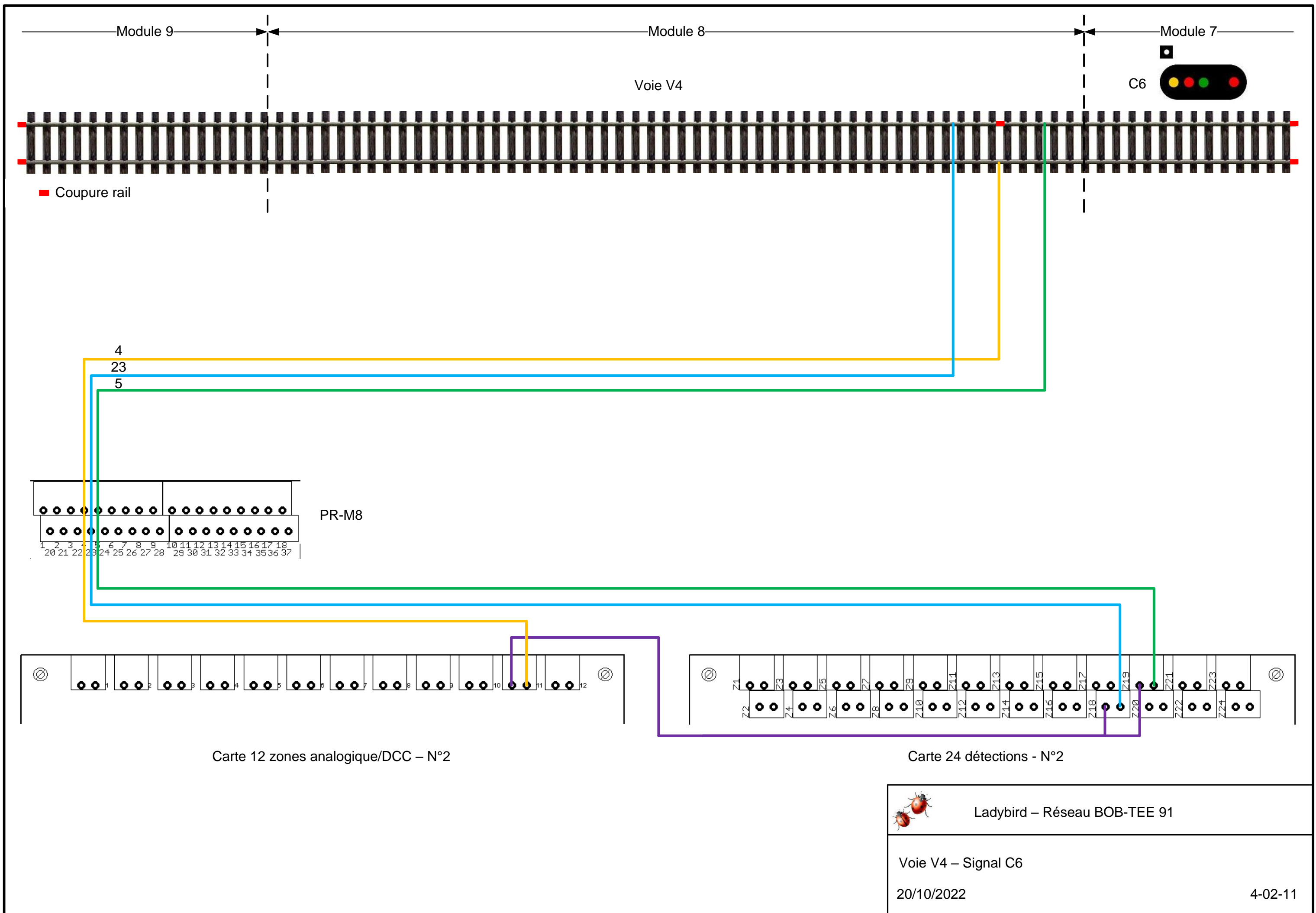
4-02-08



| | |
|----------------------|------------------------------|
| | Ladybird – Réseau BOB-TEE 91 |
| Voie V3 – Signal C19 | |
| 20/10/2022 | 4-02-09 |



| | |
|----------------------|------------------------------|
| | Ladybird – Réseau BOB-TEE 91 |
| Voie V1 – Signal C21 | |
| 20/10/2022 | 4-02-10 |

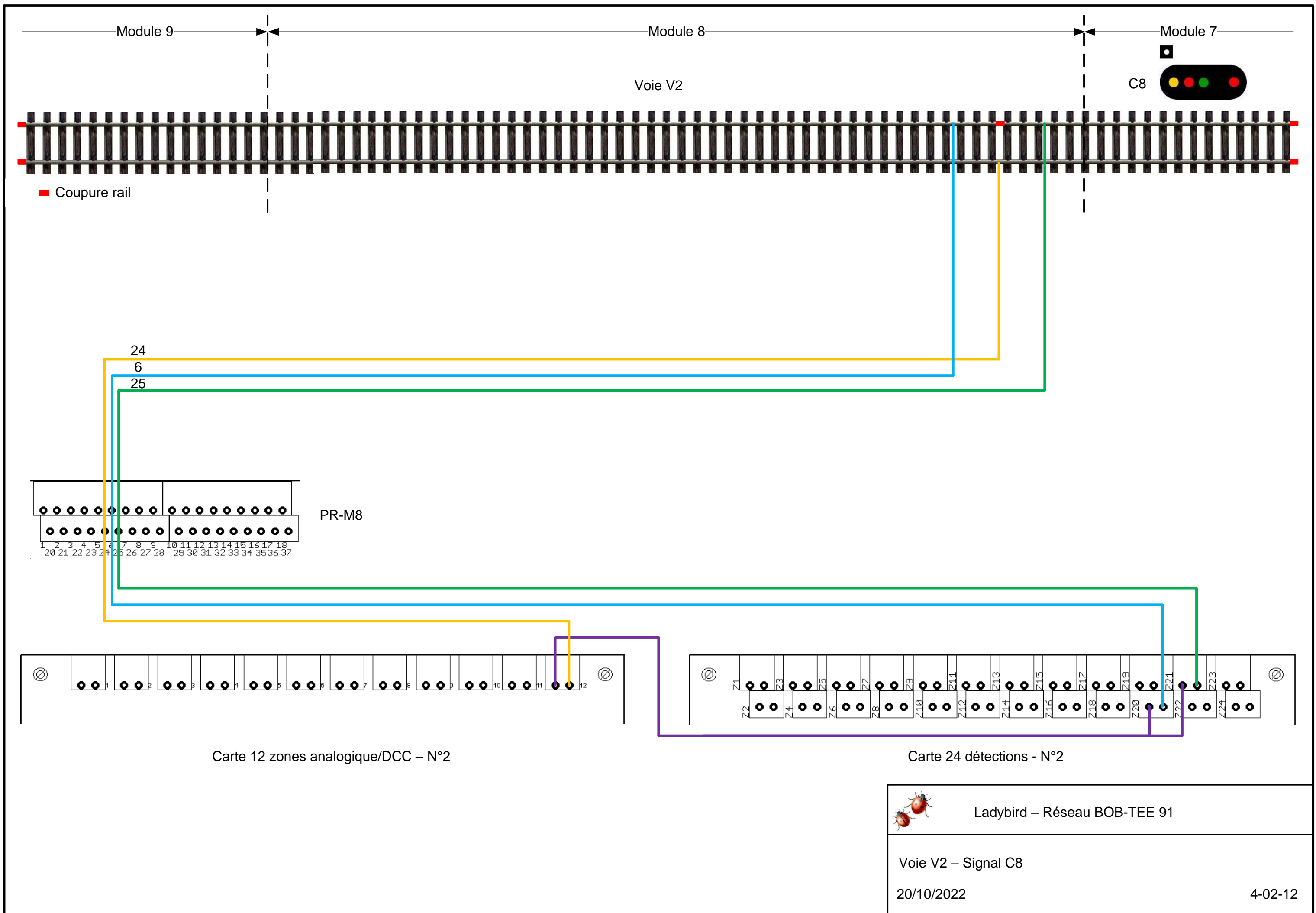


Ladybird – Réseau BOB-TEE 91

Voie V4 – Signal C6

20/10/2022

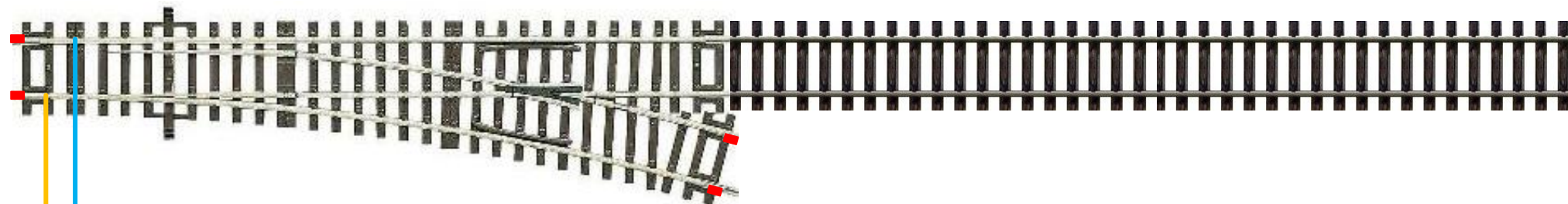
4-02-11



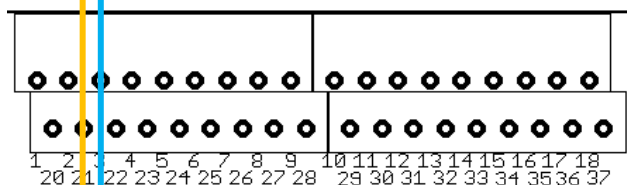
| | |
|---------------------|------------------------------|
| | Ladybird – Réseau BOB-TEE 91 |
| Voie V2 – Signal C8 | |
| 20/10/2022 | 4-02-12 |

■ Coupure rail

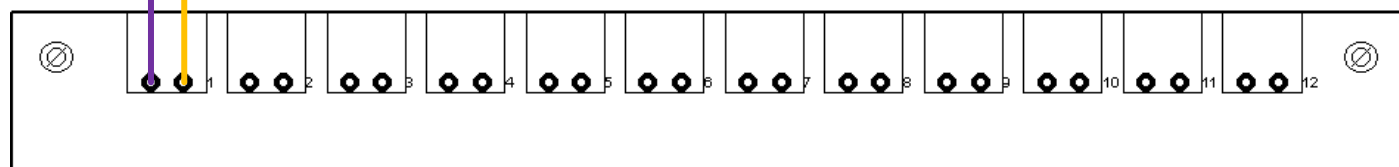
13



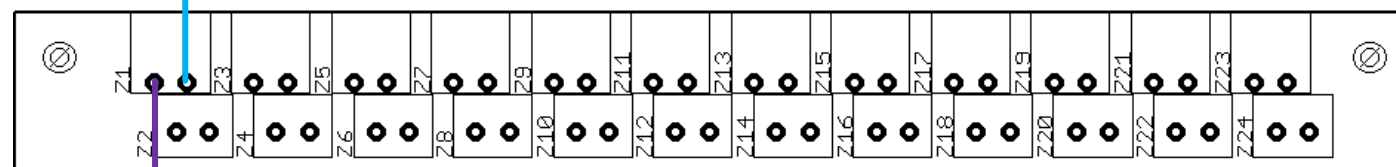
21
3



PR-M9-1



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



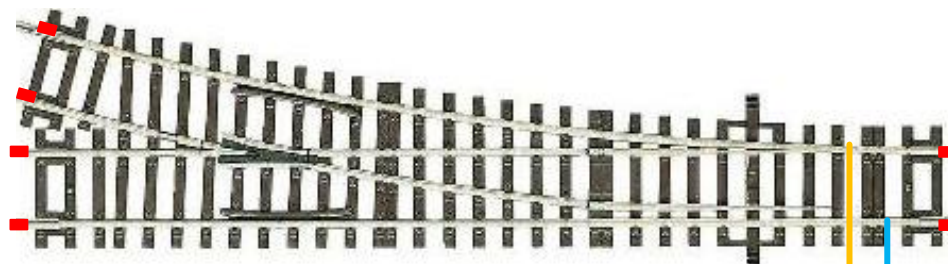
Ladybird – Réseau BOB-TEE 91

Branchement 13

04/10/2022

4-03-01

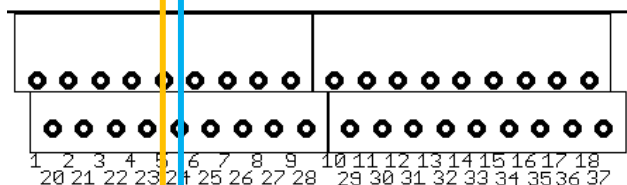
■ Coupure rail



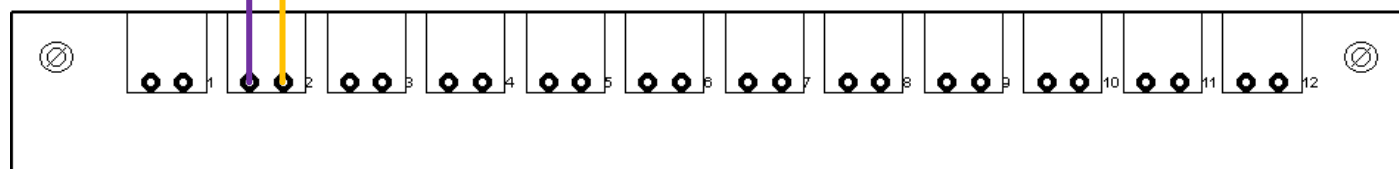
16

5

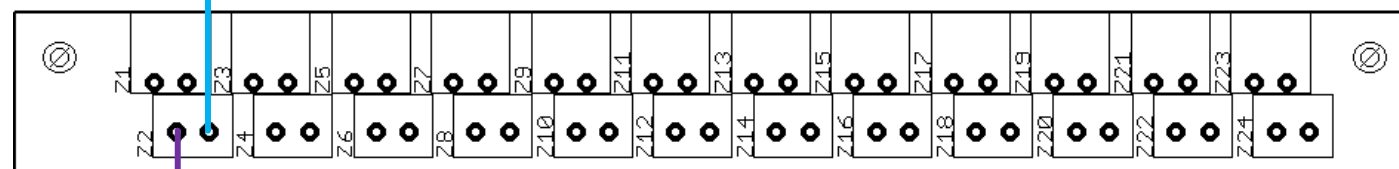
24



PR-M9-1



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



Ladybird – Réseau BOB-TEE 91

Branchement 16

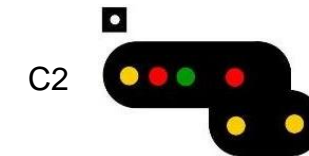
20/10/2022

4-03-02

Module 10

Module 9

Zone 36



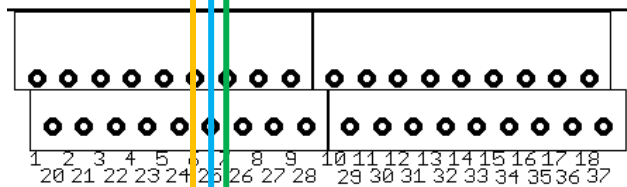
Coupure rail



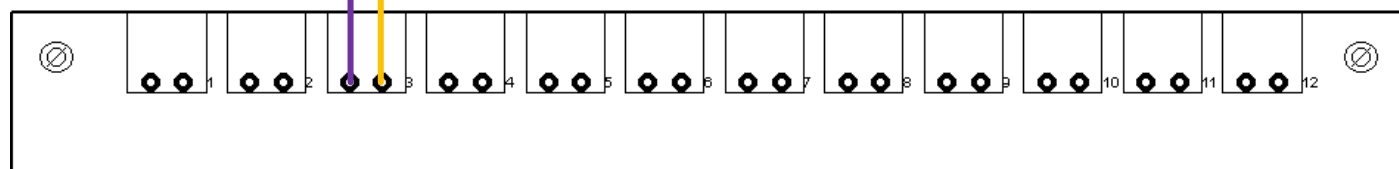
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25

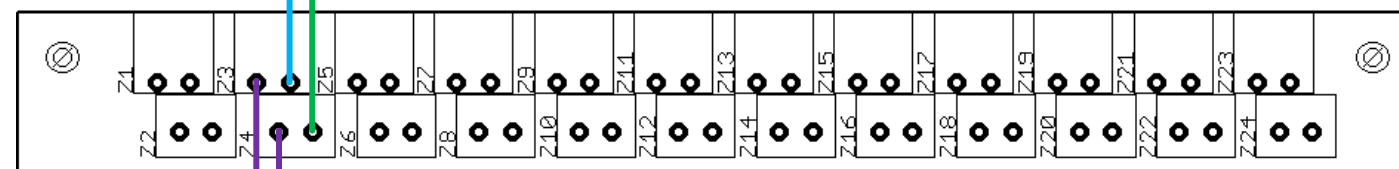
7



PR-M9-1



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



Ladybird – Réseau BOB-TEE 91

Zone 36 – Signal C2

04/10/2022

4-03-03

Voie VM

Cv23



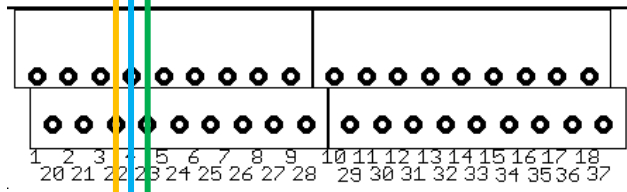
Coupure rail



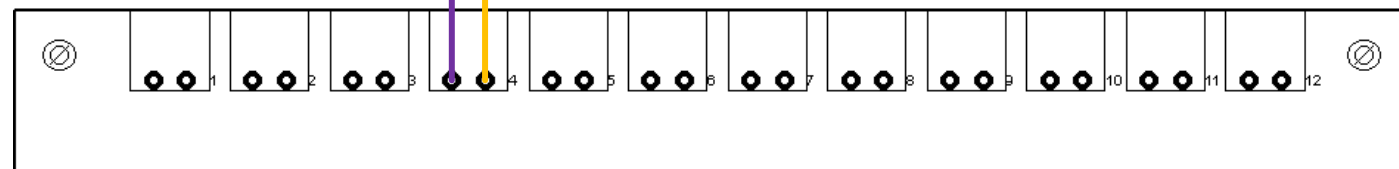
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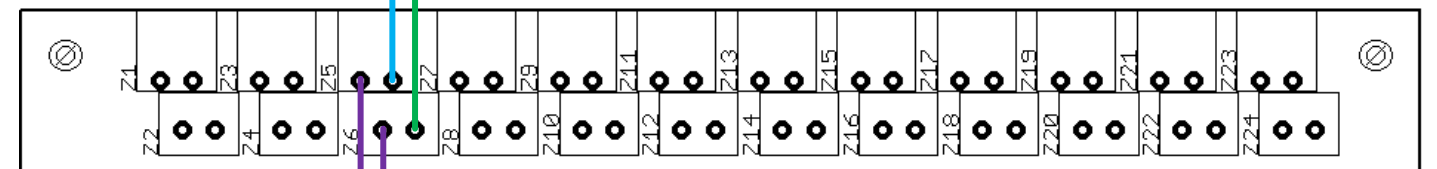
23



PR-M9-1



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



Ladybird – Réseau BOB-TEE 91

Voie VM – Signal Cv23

04/10/2022

4-03-04

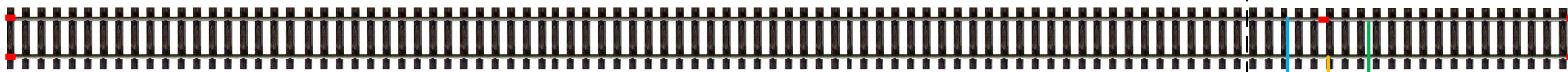
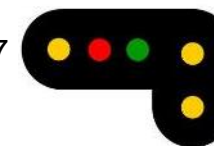
■ Coupure rail

Modules 16, 15, 14, 13, 12, 11, 10

Module 9

Zone 35

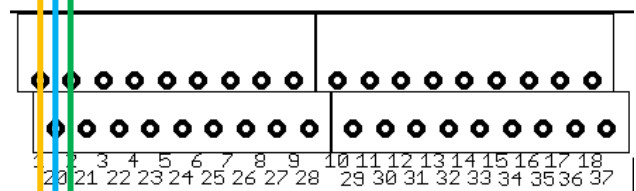
S37



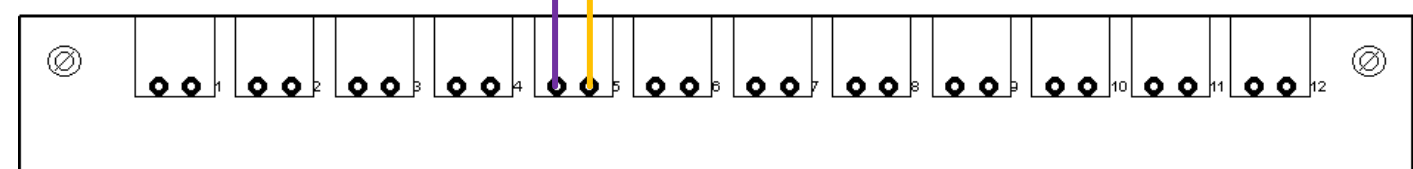
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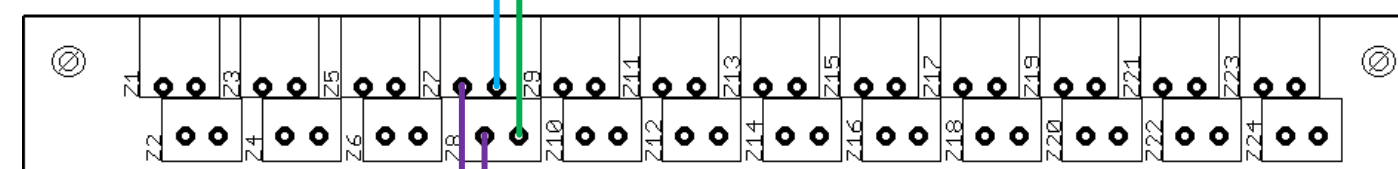
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PR-M9-1



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



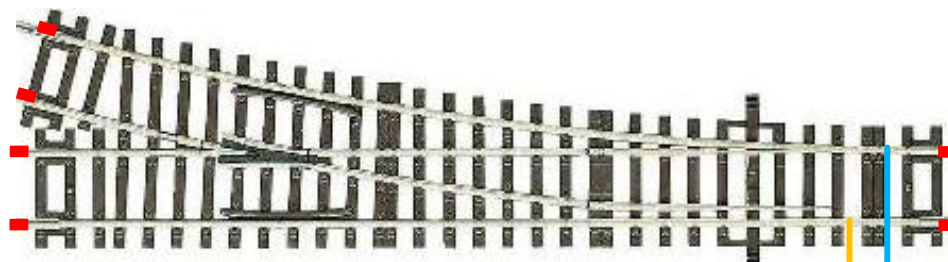
Ladybird – Réseau BOB-TEE 91

Zone 35 – Signal S37

20/10/2022

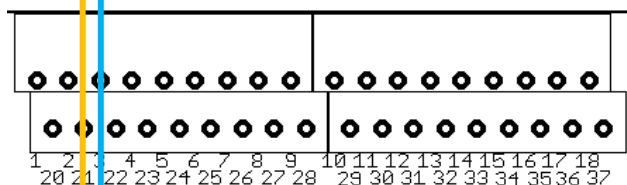
4-03-05

■ Coupure rail

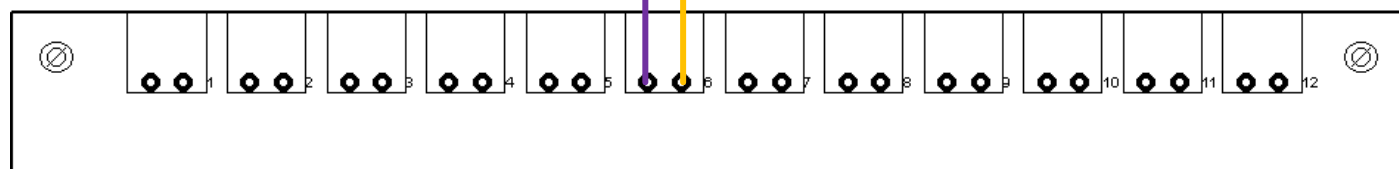


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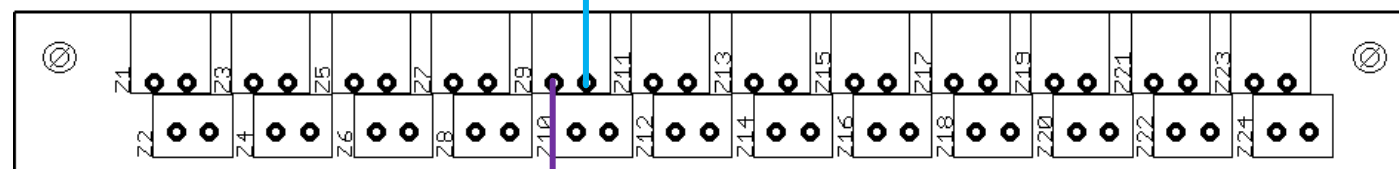
21
3



PR-M10



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



Ladybird – Réseau BOB-TEE 91

Branchement 18

20/10/2022

4-03-06

Voie S1

Cv25



Coupure rail



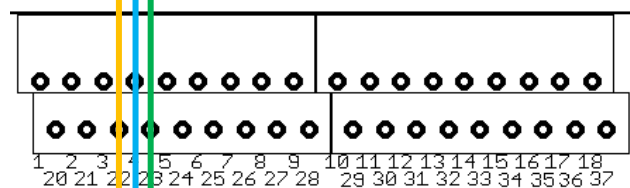
Cv4



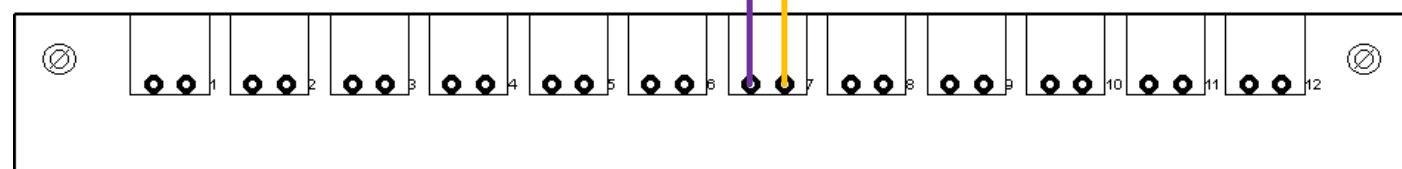
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4

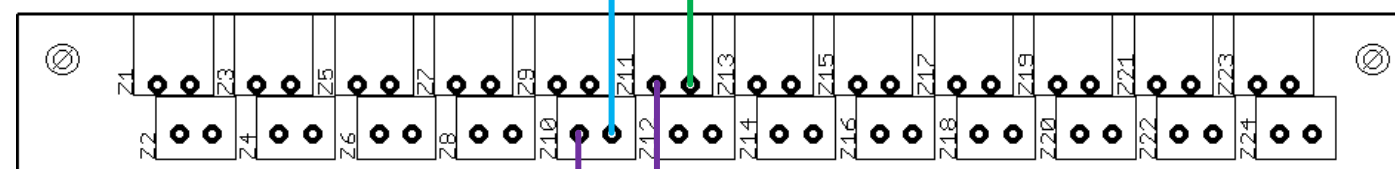
23



PR-M10



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



Ladybird – Réseau BOB-TEE 91

Voie S1 – Signaux Cv4 – Cv25

04/10/2022

4-03-07

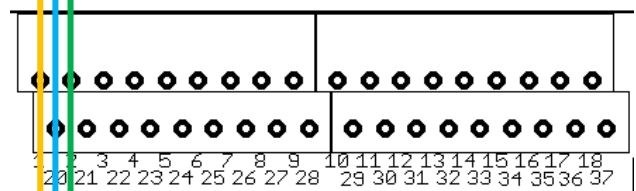
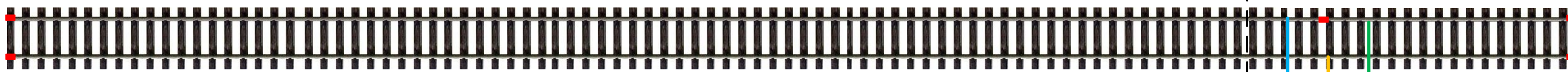
■ Coupure rail

Modules 8, 9

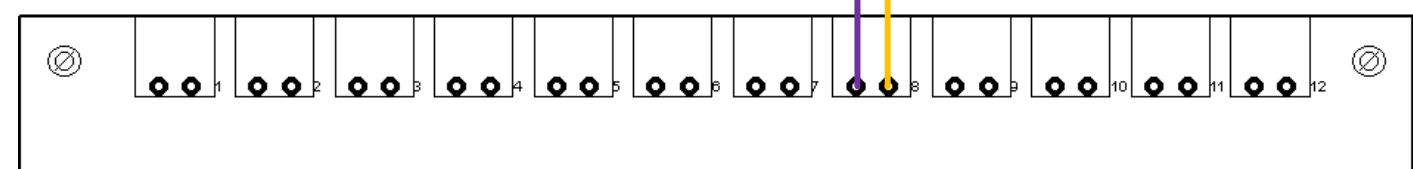
Module 10

Zone 14

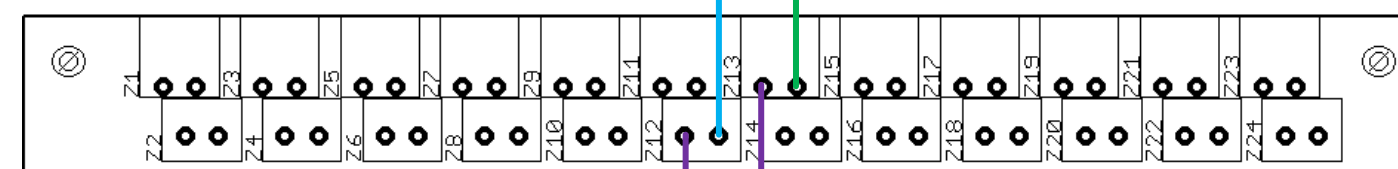
S16



PR-M10



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



Ladybird – Réseau BOB-TEE 91

Zone 14 – Signal S16

20/10/2022

4-03-08

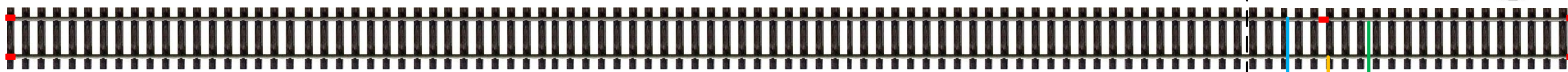
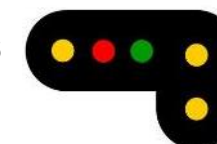
■ Coupure rail

Modules 13,12, 11

Module 10

Zone 34

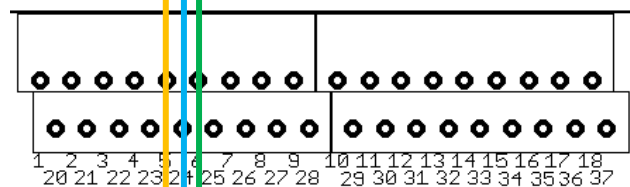
S36



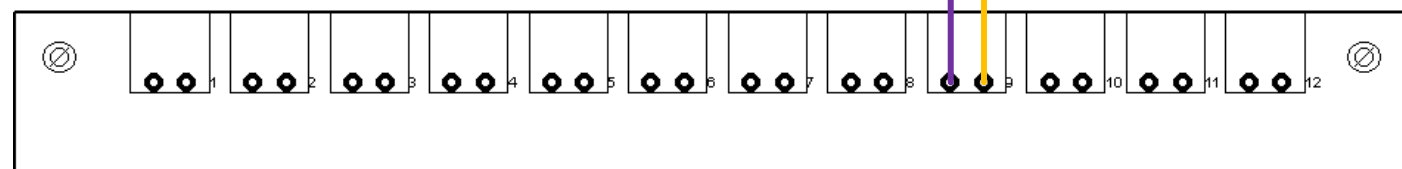
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24

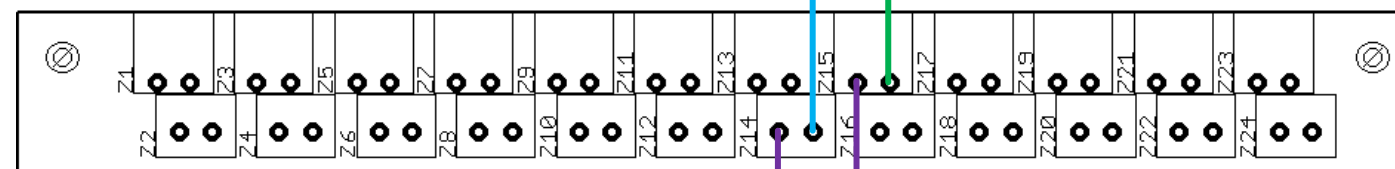
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PR-M10



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



Ladybird – Réseau BOB-TEE 91

Zone 34 – Signal S36

20/10/2022

4-03-09

Voie S2

Cv34



Coupure rail



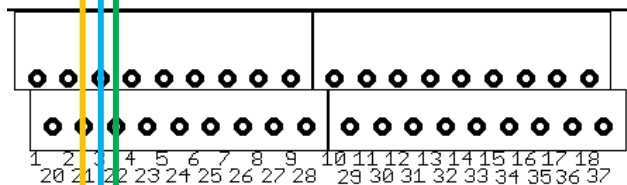
Cv27



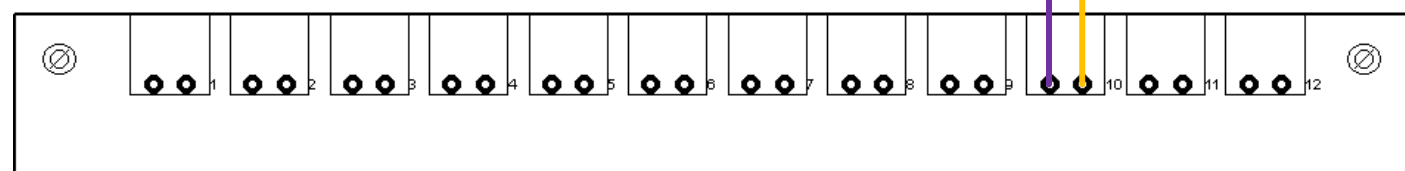
21

3

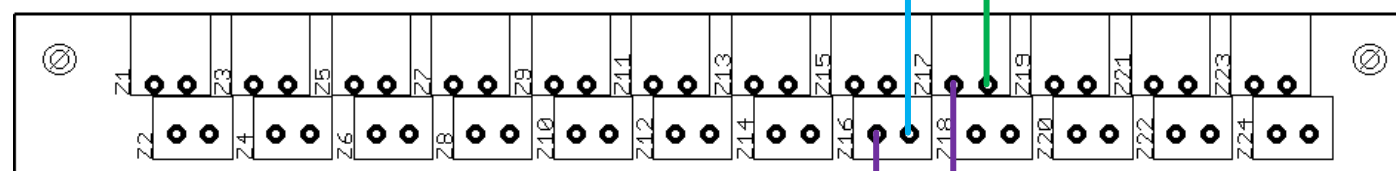
22



PR-M13



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



Ladybird – Réseau BOB-TEE 91

Voie S2 – Signaux Cv27 – Cv34

04/10/2022

4-03-10

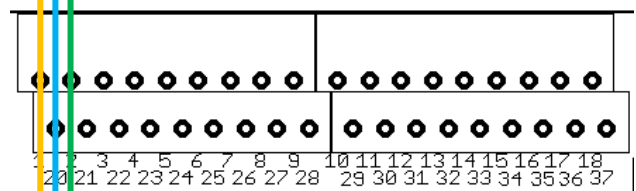
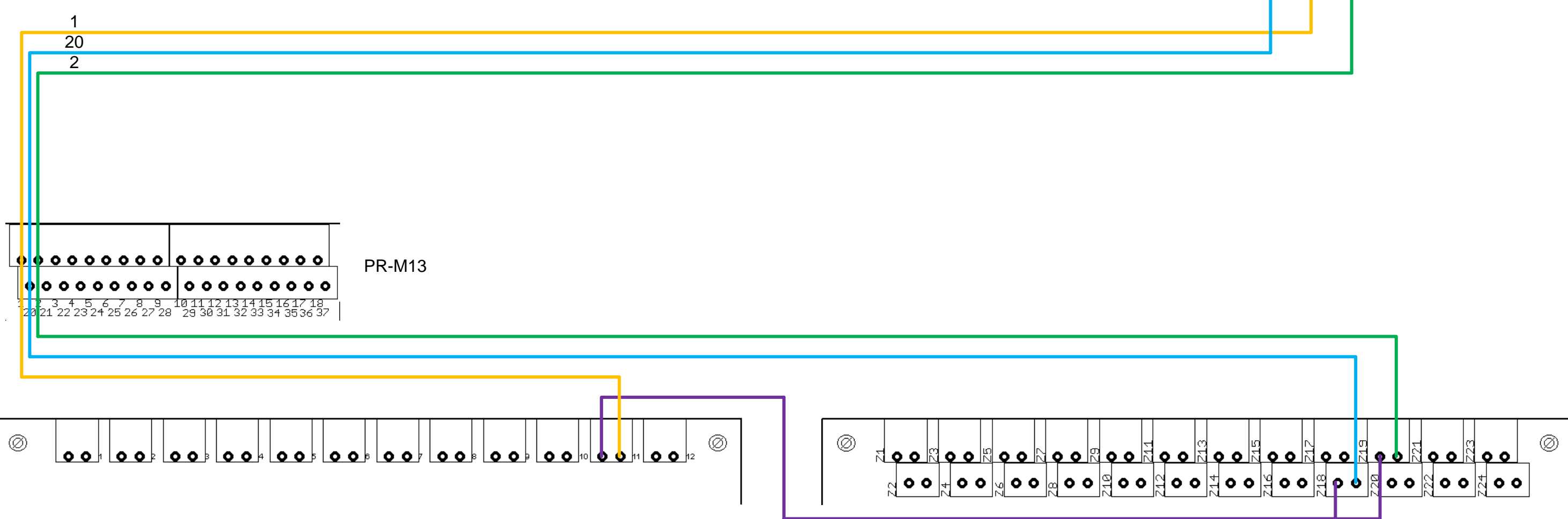
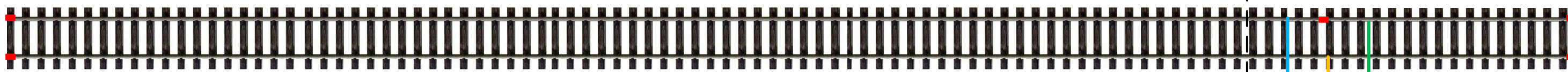
■ Coupure rail

Modules 10, 11, 12

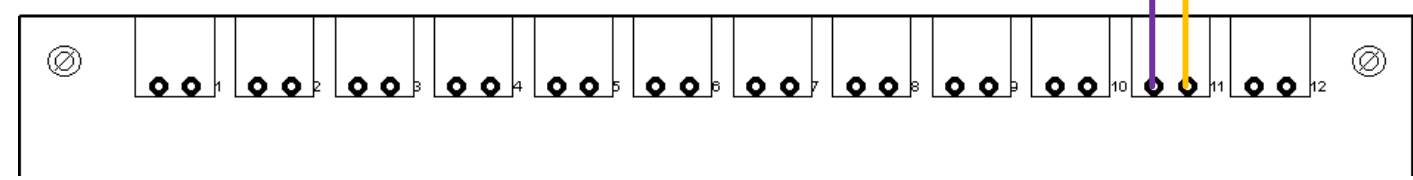
Module 13

Zone 16

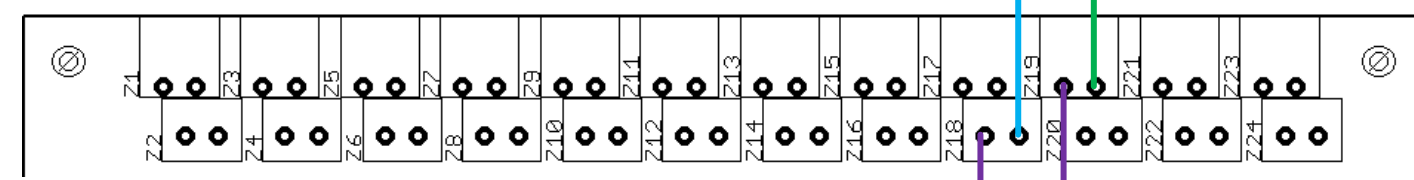
S18




PR-M13



Carte 12 zones analogique/DCC – N°3



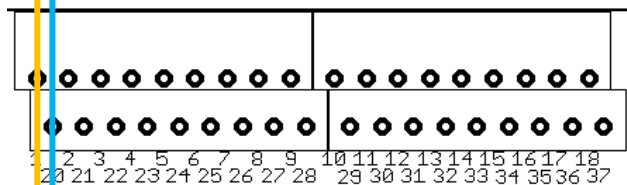
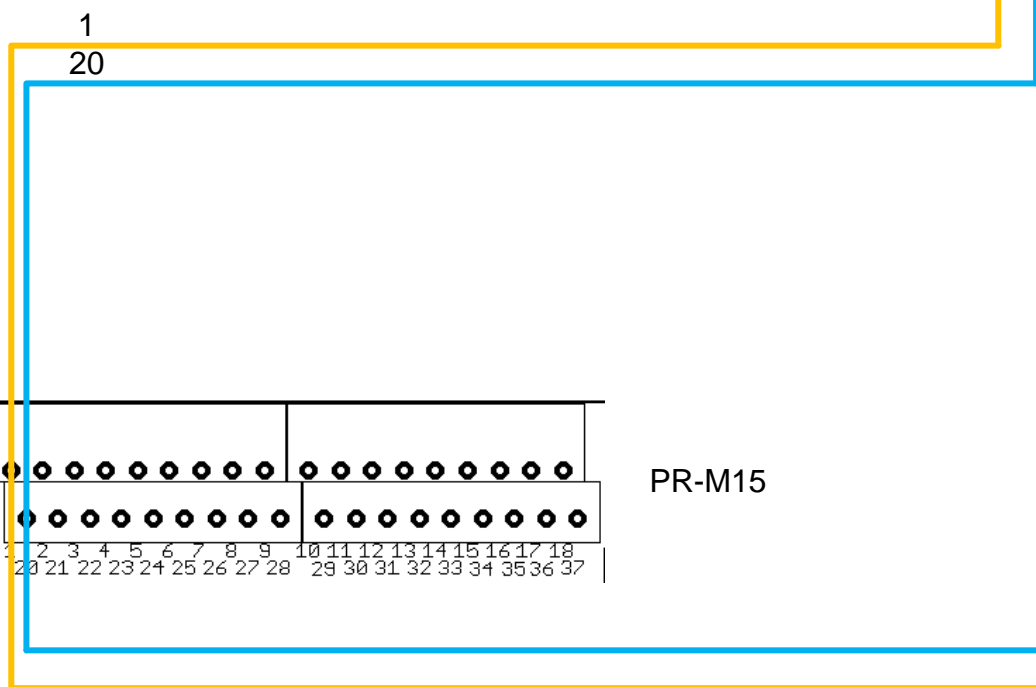
Carte 24 détections - N°3

| | |
|---|------------------------------|
|  | Ladybird – Réseau BOB-TEE 91 |
| Zone 16 – Signal S18 | |
| 20/10/2022 | |
| 4-03-11 | |

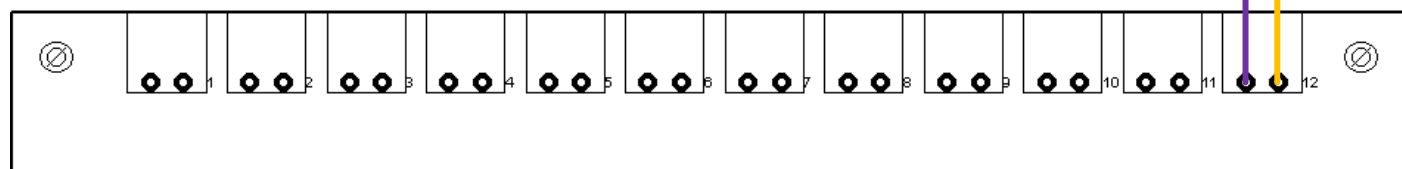
■ Coupure rail



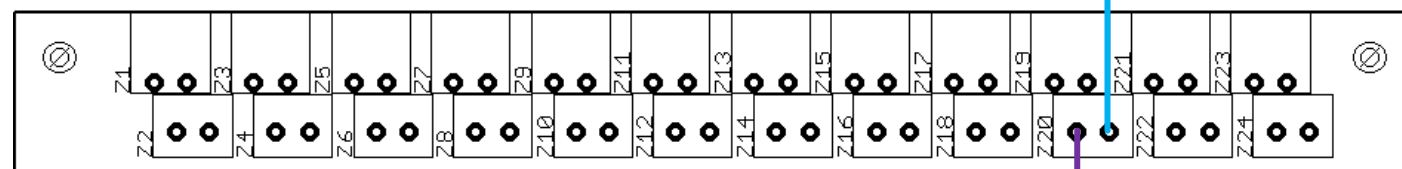
15



PR-M15



Carte 12 zones analogique/DCC – N°3



Carte 24 détections - N°3



Ladybird – Réseau BOB-TEE 91

Branchement 15

04/10/2022

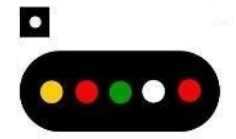
4-03-12

Modules 17, 16

Module 15

Zone 24

C30



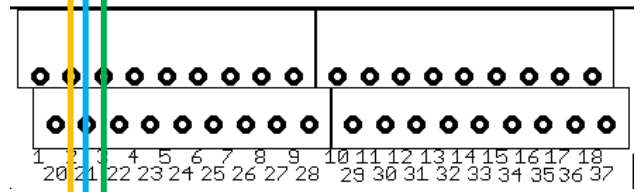
17

Coupure rail

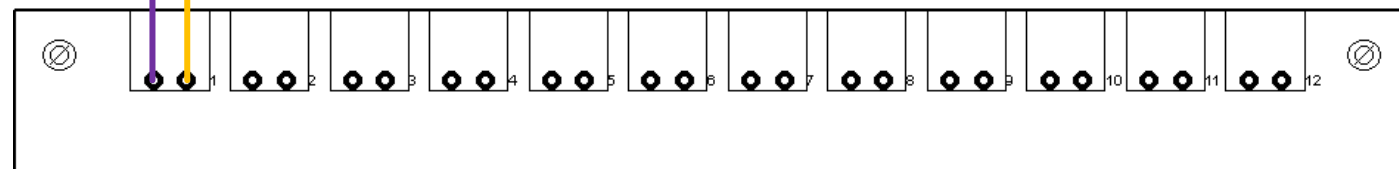
2

21

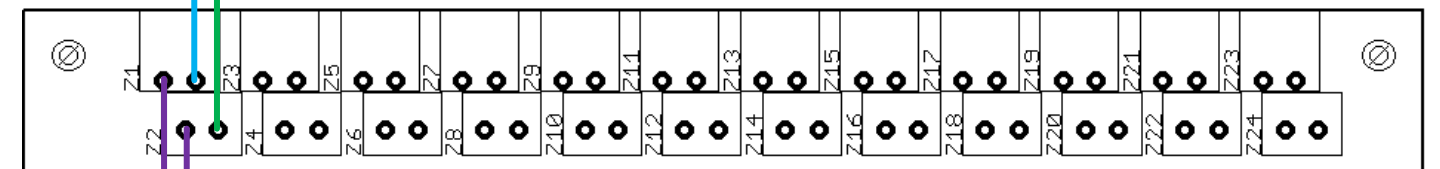
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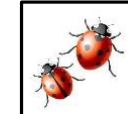
PR-M15



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

Branchement 17 – Zone 24 – Signal C30

20/10/2022

4-04-01

Voie M2

Cv32



Coupure rail



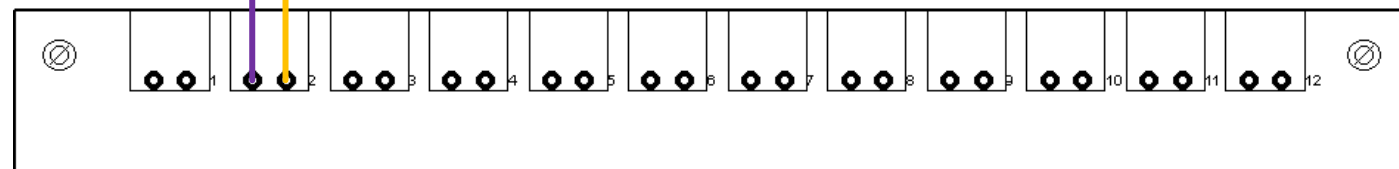
22

4

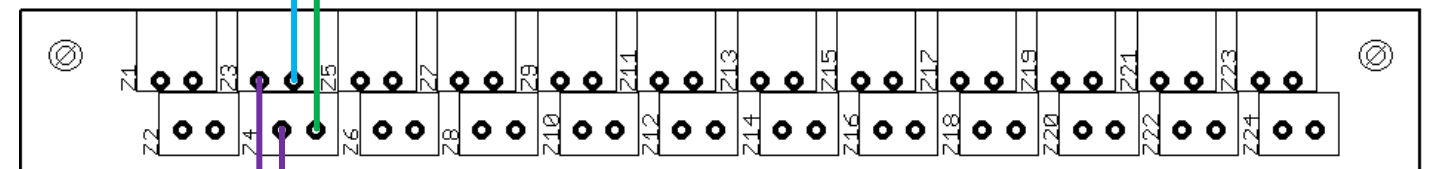
23



PR-M15



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

Voie M2 – Signal Cv32

04/10/2022

4-04-02

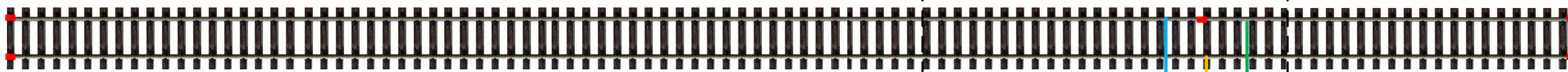
■ Coupure rail

Modules 23, 20, 19, 18

Module 17

Module 16

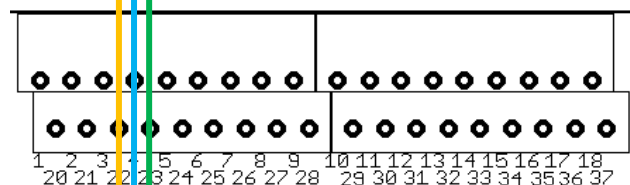
Zone 33



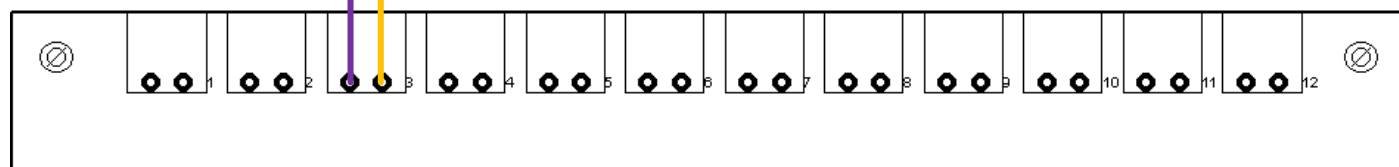
22

4

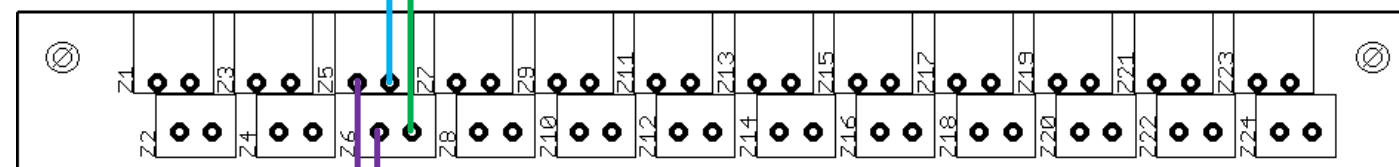
23



PR-M17



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

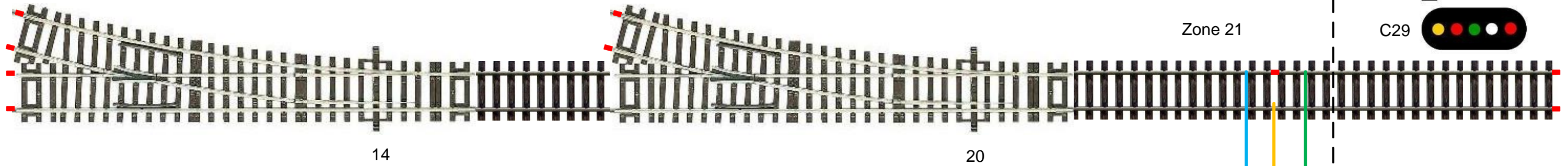
Zone 33 – Signal S35

20/10/2022

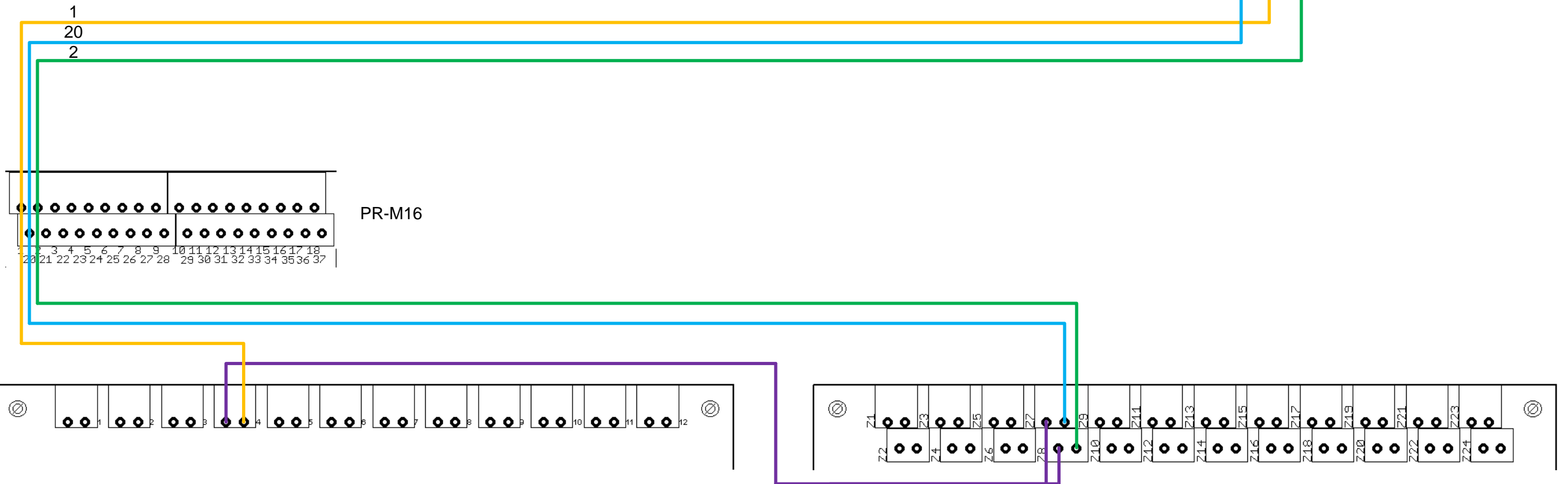
4-04-03

Modules 9, 10, 11, 12, 13, 14, 15, 16

Module 17



■ Coupure rail



PR-M16

Carte 12 zones analogique/DCC – N°4

Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

Branchements 14-20 - Zone 21 – Signal C29

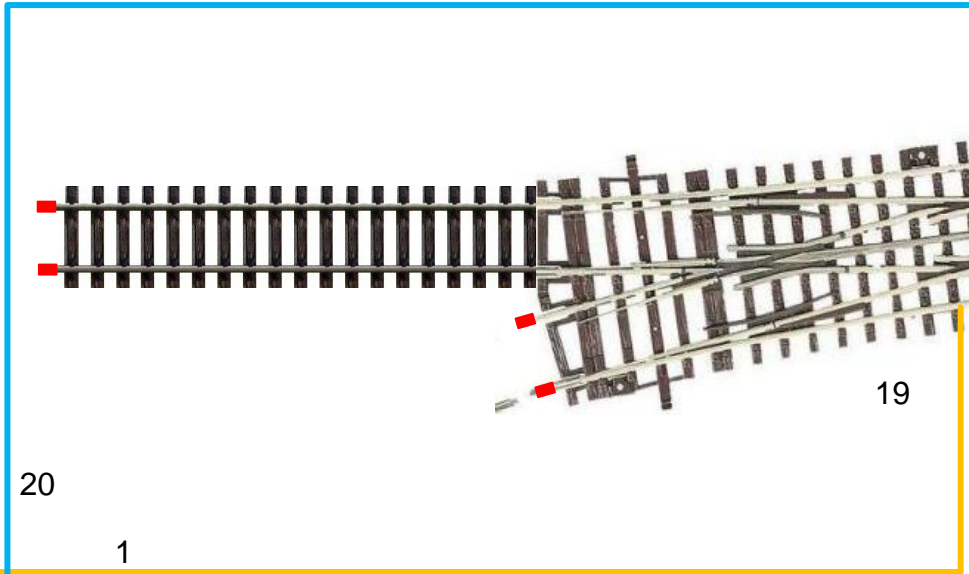
20/10/2022

4-04-04

Module 17

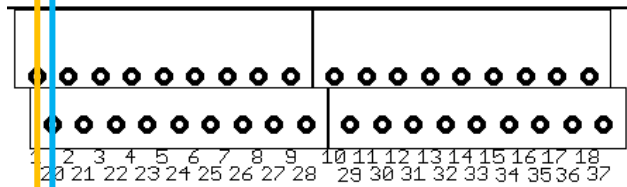
Gare cachée sortie V2

Coupure rail

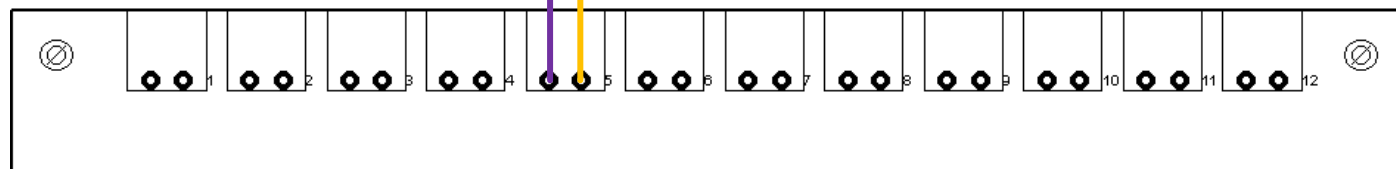


19

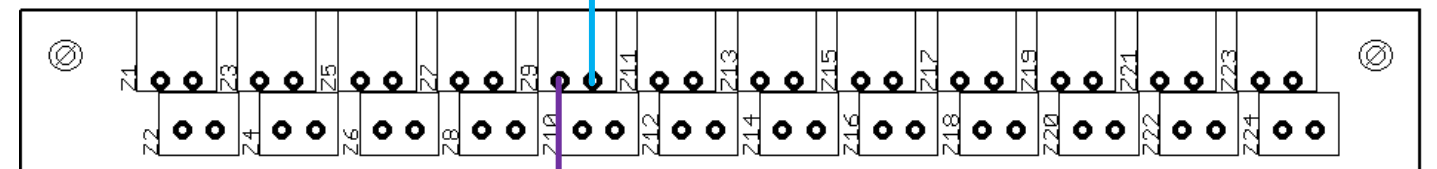
21



PR-M17



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

TJS 19 - Branchement 21

20/10/2022

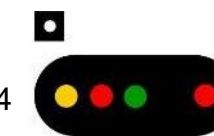
4-04-05

Modules 22, 21, 20, 19, 18

Module 17

Zone 22

C24



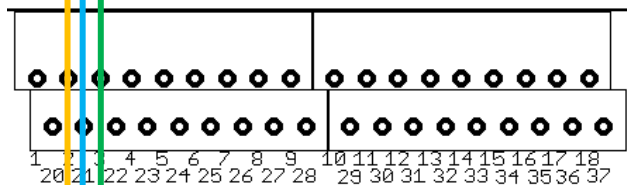
Coupure rail



2

21

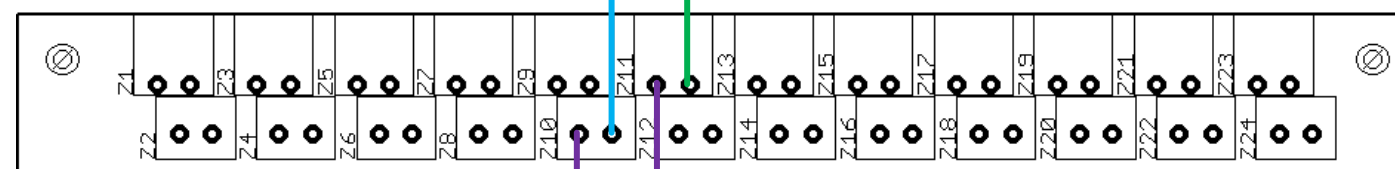
3



PR-M17



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

Zone 22 – Signal C24

20/10/2022

4-04-06

Voie G14

C26



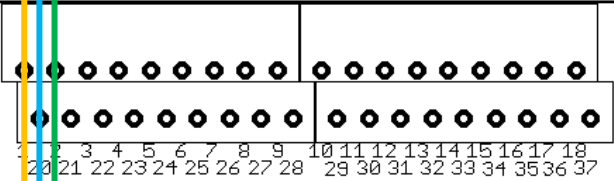
Coupure rail



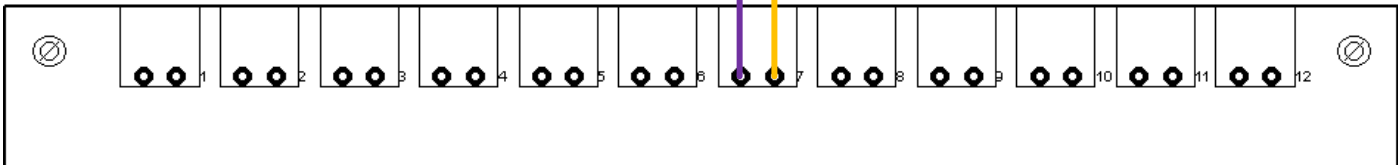
1

20

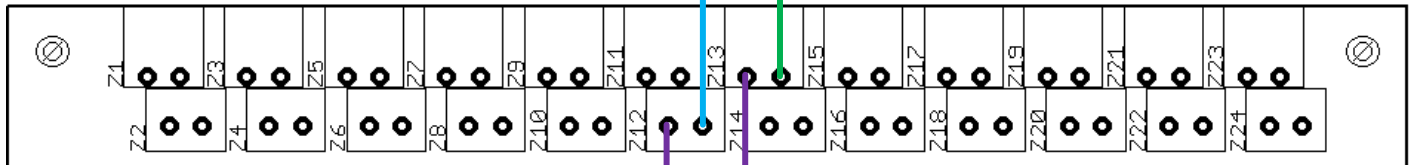
2



PR-CG2



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

Voie G14 – Signal C26

04/10/2022

4-04-07

Voie G12

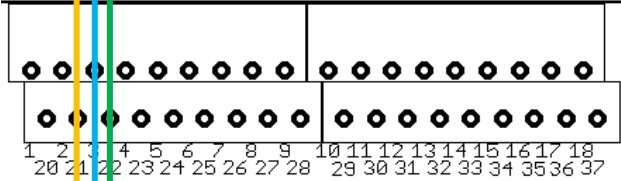
C28



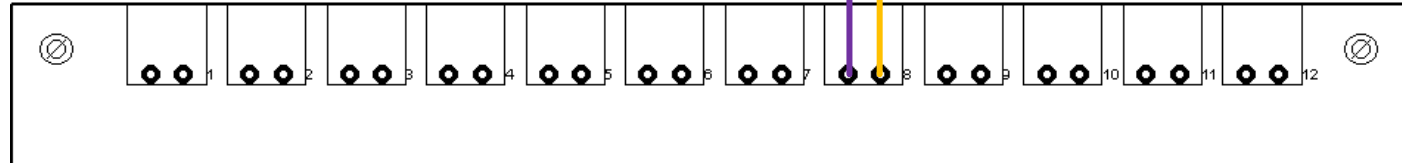
Coupure rail



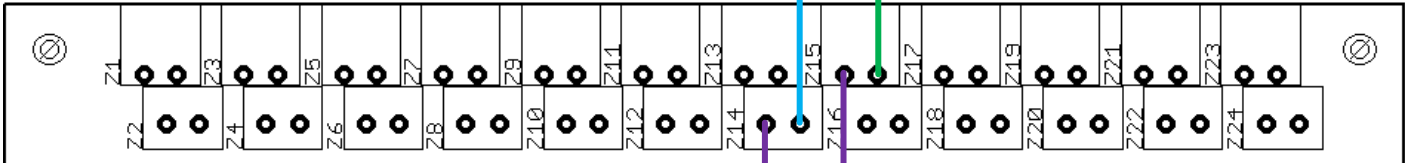
21
3
22



PR-GC2



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

Voie G12 – Signal C28

04/10/2022

4-04-08

■ Coupure rail

Modules 13, 14, 15

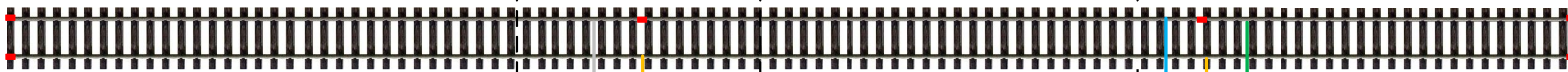
Module 16

Modules 17, 18

Module 19

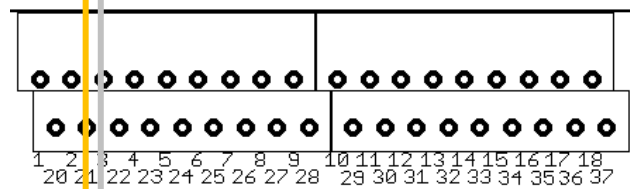
Zone 18a

Zone 18b

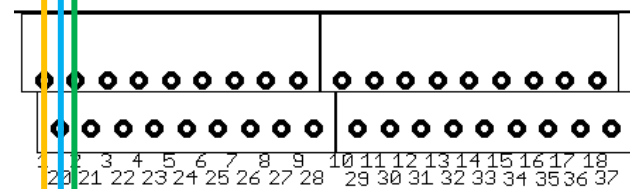


21
3

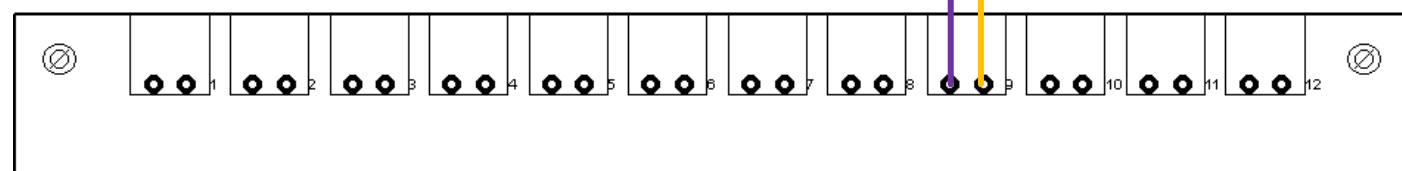
1
20
2



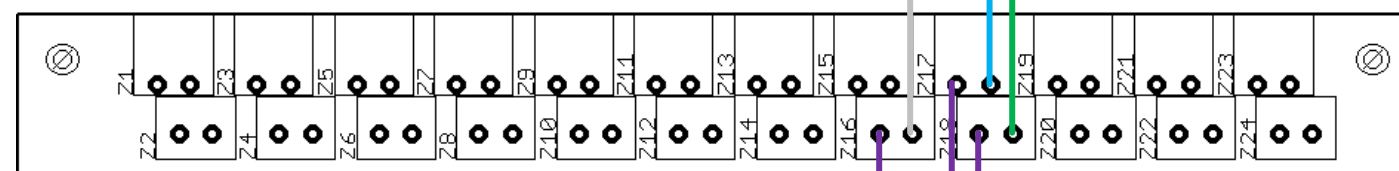
PR-M16



PR-M19



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

Zones 18a – 18b – Signal S20

20/10/2022

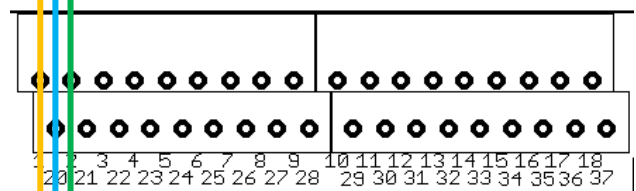
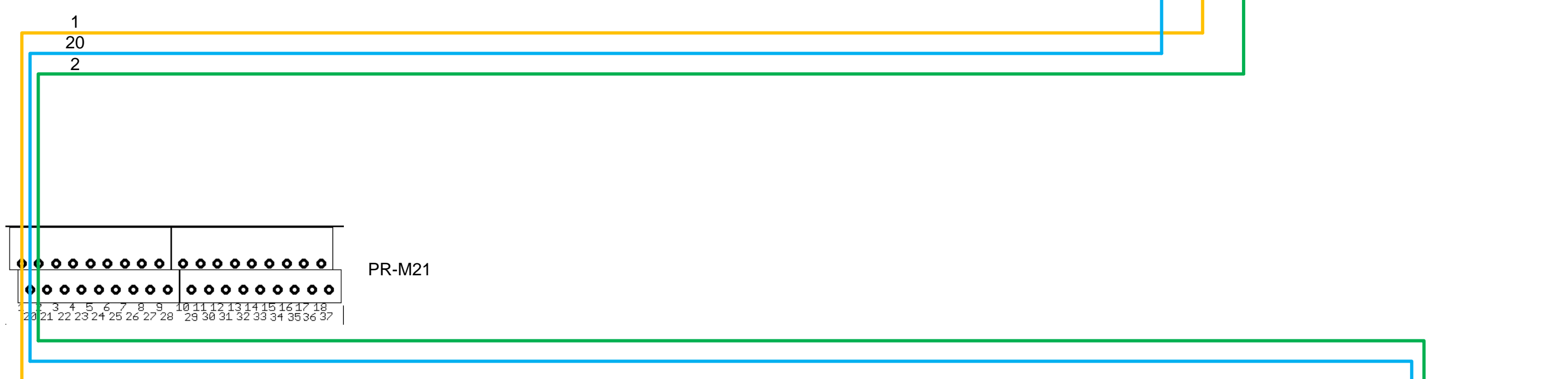
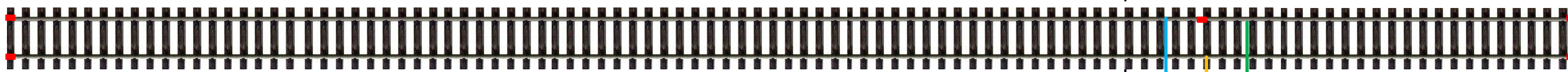
4-04-09

■ Coupure rail

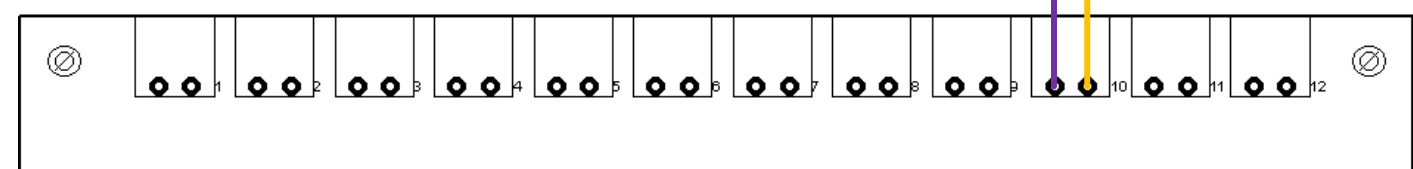
Modules 18, 19, 20

Module 21

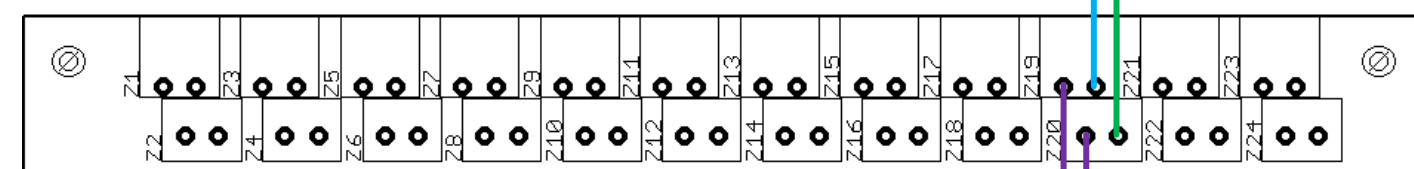
Zone 29



PR-M21



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

Zone 29 – Signal S31

20/10/2022

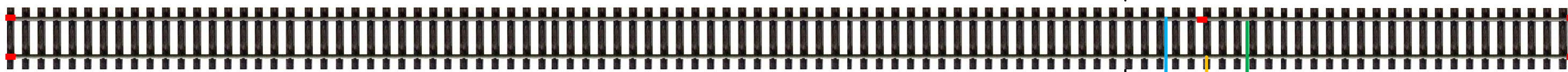
4-04-10

■ Coupure rail

Modules 19, 20, 23

Module 22

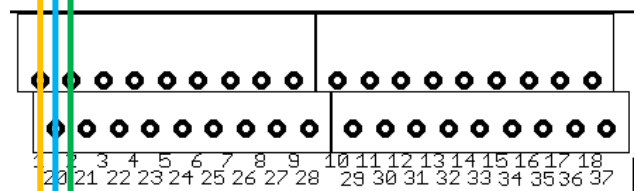
Zone 20



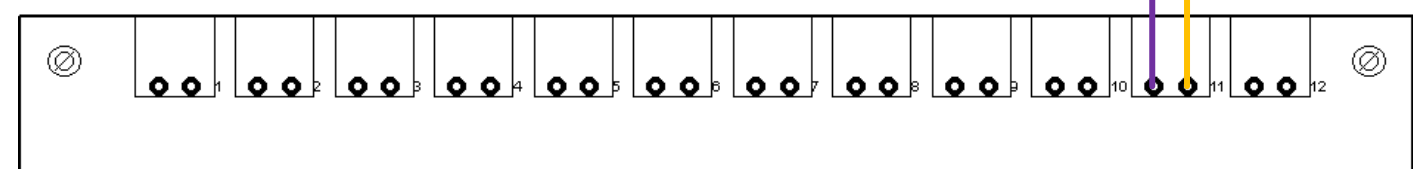
1

20

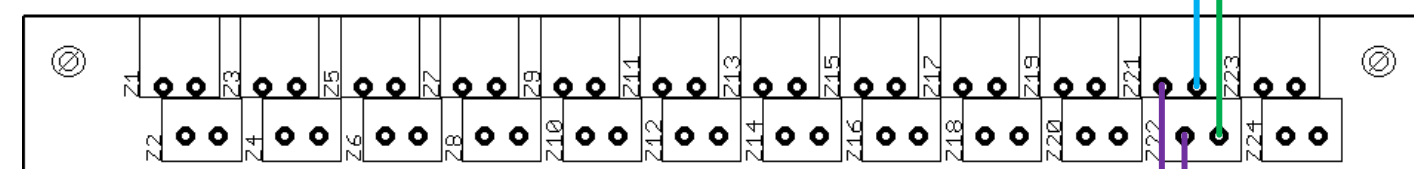
2



PR-M22



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



Ladybird – Réseau BOB-TEE 91

Zone 20 – Signal S22

20/10/2022

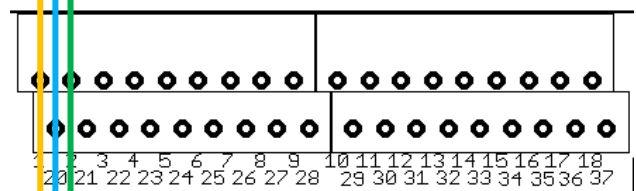
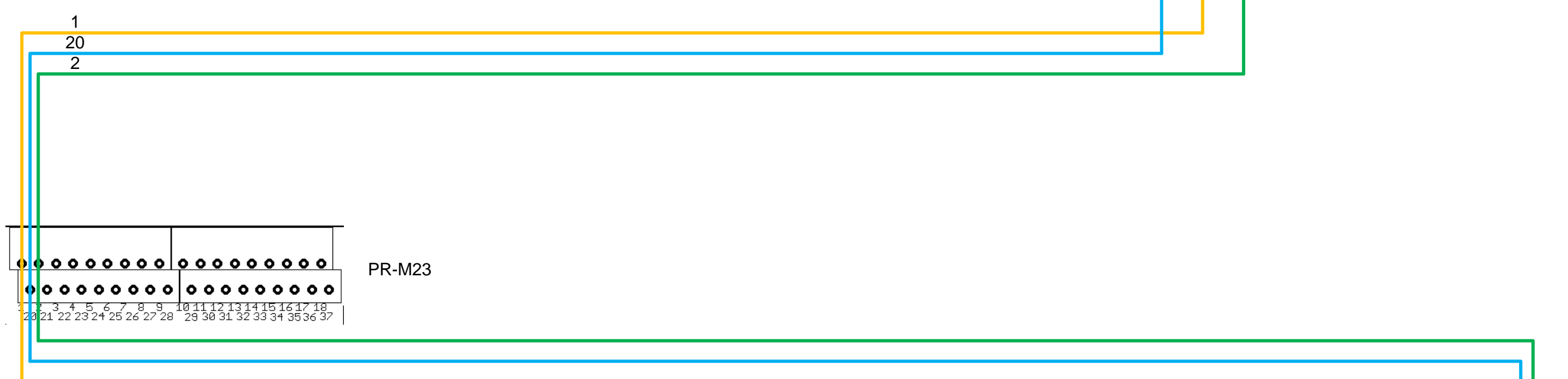
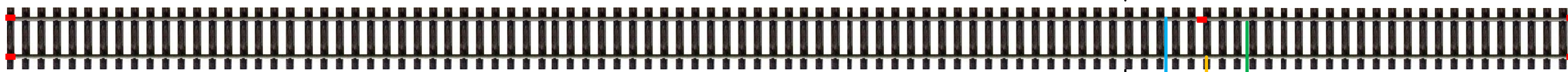
4-04-11

■ Coupure rail

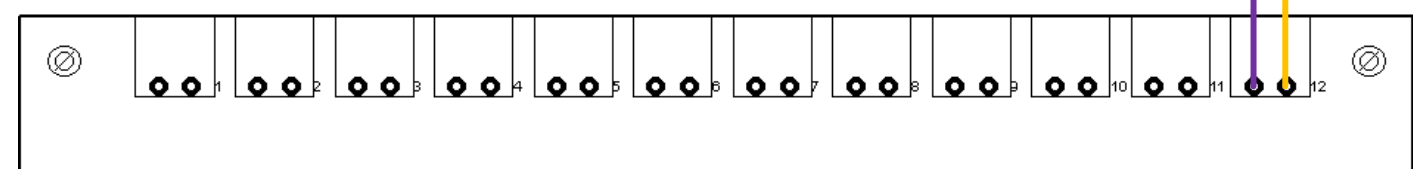
Modules 21, 22

Module 23

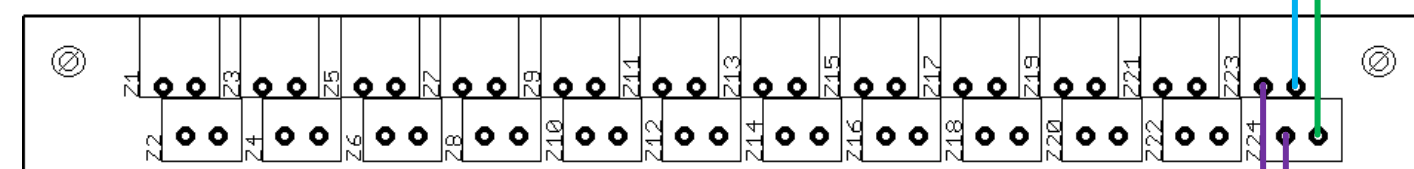
Zone 31



PR-M23



Carte 12 zones analogique/DCC – N°4



Carte 24 détections - N°4



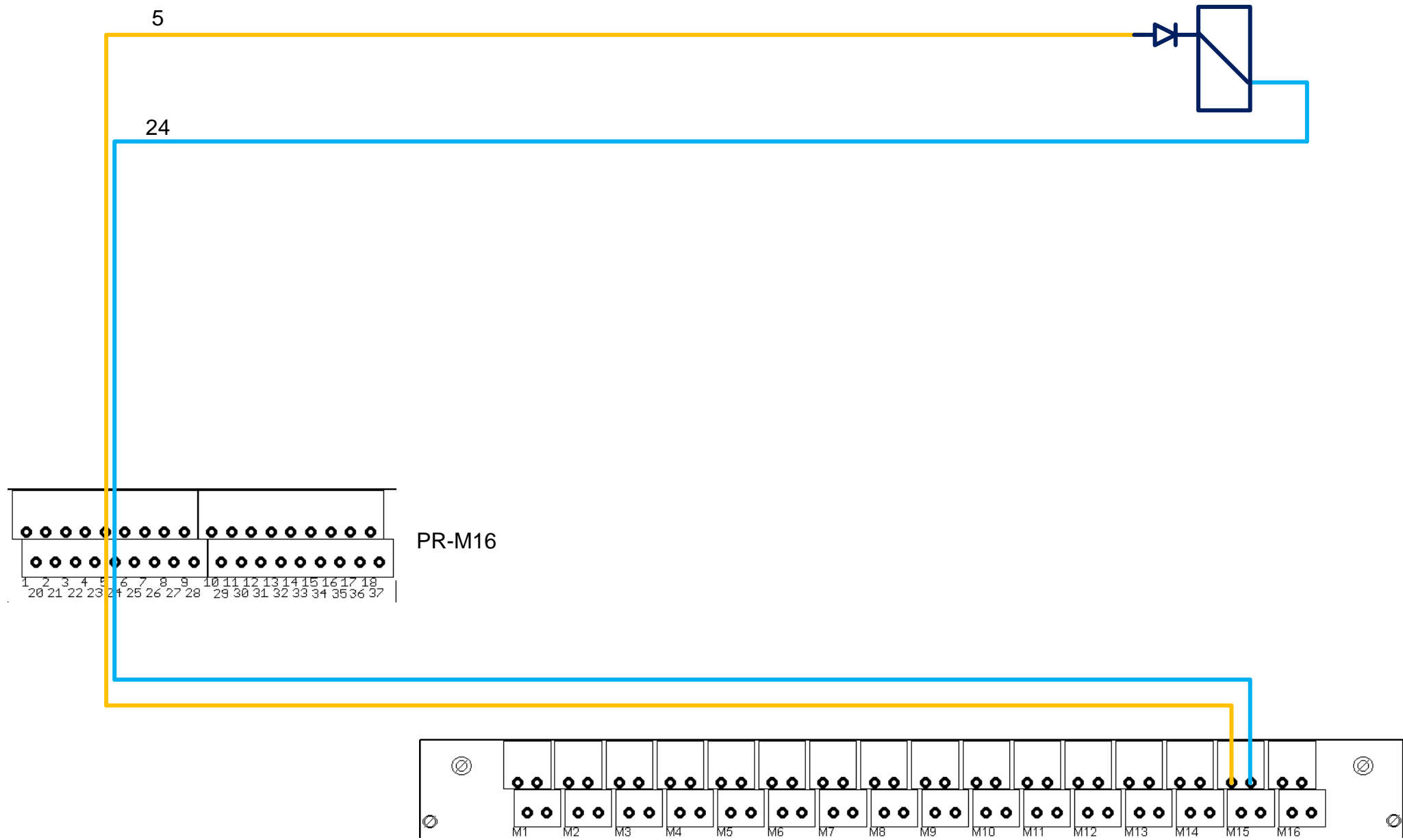
Ladybird – Réseau BOB-TEE 91

Zone 31 – Signal S33

20/10/2022

4-04-12

Câblage de la commande du passage à niveau



PR-M16

Carte aiguille - N° 2



Ladybird – Réseau BOB-TEE 91

Commande du passage à niveau

22/01/2023

Feuille : 5-01-01