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|  | ­Raspberry PI connecté à l'automate ZELIO Brochage du connecteur GPIO   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | BMC | wPI | Nom | Broches | | Nom | wPi | BMC | |  |  | 3.3v | 1 | 2 | 5v |  |  | | **2** | **8** | SDA.1 | 3 | 4 | 5v |  |  | | **3** | **9** | SCL.1 | 5 | 6 | 0v |  |  | | **4** | **7** | GPIO. 7 | 7 | 8 | TxD | **15** | **14** | |  |  | 0v | 9 | 10 | RxD | **16** | **15** | | **17** | **0** | GPIO. 0 | 11 | 12 | GPIO. 1 | **1** | **18** | | **27** | **2** | GPIO. 2 | 13 | 14 | 0v |  |  | | **22** | **3** | GPIO. 3 | 15 | 16 | GPIO. 4 | **4** | **23** | |  |  | 3.3v | 17 | 18 | GPIO. 5 | **5** | **24** | | **10** | **12** | MOSI | 19 | 20 | 0v |  |  | | **9** | **13** | MISO | 21 | 22 | GPIO. 6 | **6** | **25** | | **11** | **14** | SCLK | 23 | 24 | CE0 | **10** | **8** | |  |  | 0v | 25 | 26 | CE1 | **11** | **7** | | **0** | **30** | SDA.0 | 27 | 28 | SCL.0 | **31** | **1** | | **5** | **21** | GPIO.21 | 29 | 30 | 0v |  |  | | **6** | **22** | GPIO.22 | 31 | 32 | GPIO.26 | **26** | **12** | | **13** | **23** | GPIO.23 | 33 | 34 | 0v |  |  | | **19** | **24** | GPIO.24 | 35 | 36 | GPIO.27 | **27** | **16** | | **26** | **25** | GPIO.25 | 37 | 38 | GPIO.28 | **28** | **20** | |  |  | 0v | 39 | 40 | GPIO.29 | **29** | **21** | | | | | | | | | | | |
|  | | | **Broches physiques** | | | | | |
| Effets sur l'application | | BMC | Zélio | **PI** | | Interface | Relais | Zélio | BMC | Commande | Effets sur l'automate |
|  | | 3,3V | **NC** | **1** | **2** |  |  |  | 5V |  |  |
|  | | 2, I2C | **NC** | **3** | **4** | **VCC** |  |  | 5V | Alim bloc relais | Alimentation bloc relais. Fils brun |
|  | | 3, I2C | **NC** | **5** | **6** |  |  |  | 0V |  |  |
|  | | 4, CLK | **NC** | **7** | **8** |  |  |  | NC |  |  |
| Fils blanc. Relié à la borne commune des sorties Q8..QA du Zélio | | OV | **C** | **9** | **10** |  |  |  | NC |  |  |
| Shutdown serveur par application d'un niveau 0 | | 17 | **NC** | **11** | **12** | **IN8** | **K8** | **i4** | 18 | CMD1 | Arrosage start, [btn vert télécommande]. Fils orange |
| Fils brun. Met à jour l'icône arrosage | | 27 | **Q8** | **13** | **14** |  |  |  | NC |  |  |
| Fils rouge. "Défaut pompe". Effacer l'erreur par z3 du Zélio | | 22 | **Q9** | **15** | **16** | **IN7** | **K7** | **i3** | 23 | CMD2 | Arrosage stop, [btn noir télécommande]. Fils jaune |
|  | | 3,3V | **NC** | **17** | **18** | **IN6** | **K6** | **i1** | 24 | CMD3 | Remplissage réservoir, [btn bleu télecmd]. Fils vert |
| Fils noir. Active l'option menu "Réamorcer réservoir" | | 10 | **QA** | **19** | **20** |  |  |  | 0V |  |  |
|  | | 9 | **NC** | **21** | **22** | **IN5** | **K5** | **i2** | 25 | CMD4 | Stop rempli. réservoir, [btn rouge télecmd]. Fils bleu |
|  | | 11 | **NC** | **23** | **24** |  |  |  | NC |  |  |
|  | | 0V | **NC** | **25** | **26** |  |  |  | NC |  |  |
|  | | 0 | **NC** | **27** | **28** |  |  |  | NC |  |  |
| Fils gris Met à jour l'icône remplissage réservoir | | 5 | **Q5** | **29** | **30** |  |  |  | NC |  |  |
|  | | 6 | **NC** | **31** | **32** | **IN4** | **K4** | **i8** | 12 | CMD5 [bistable] | Forçage VMC. Fils violet |
|  | | 13 | **NC** | **33** | **34** | **NC** |  |  | 0V |  |  |
|  | | 19 | **NC** | **35** | **36** | **IN3** | **K3** | **i6** | 16 | CMD6 [bistable] | **1** irrigation EST 1X jour. **0** irrigation EST 3X jour. Fils gris |
|  | | 26 | **NC** | **37** | **38** | **IN2** | **K2** | **I9** | 20 | CMD7 [bistable] | Coupure PAC. Fils blanc |
|  | | OV | **NC** | **39** | **40** | **IN1** | **K1** | **I5** | 21 | CMD8 | Cmd électrovanne irrigation EST durant 10mn. Fils noir |
|  | | | | | | | | VCC |  | | Fils brun |

NOTA : Les commandes CMD 5..8 n'ont pas de télécommande.

Les connexions GPIO 17,18, 23, 23, 25, 12, 16, 20, 21 sont programmées en **sortie**. Un niveau 0 sur ces broches fait coller les relais.

Les connexions GPIO 27, 22, 10 sont programmées en **entrée** avec résistance de tirage au VCC