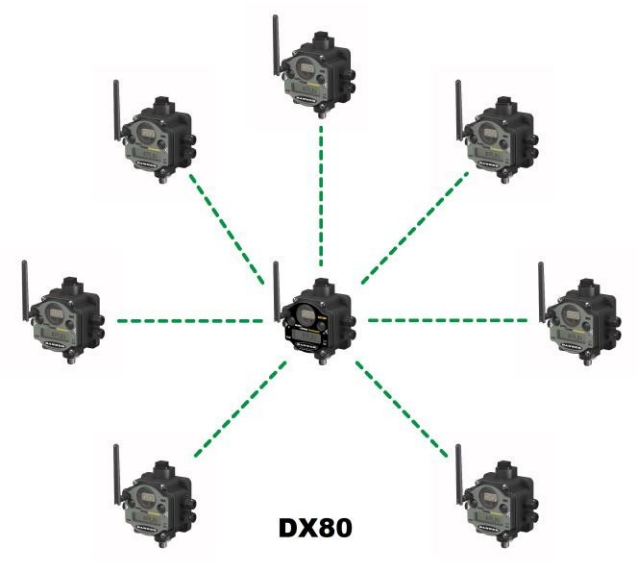
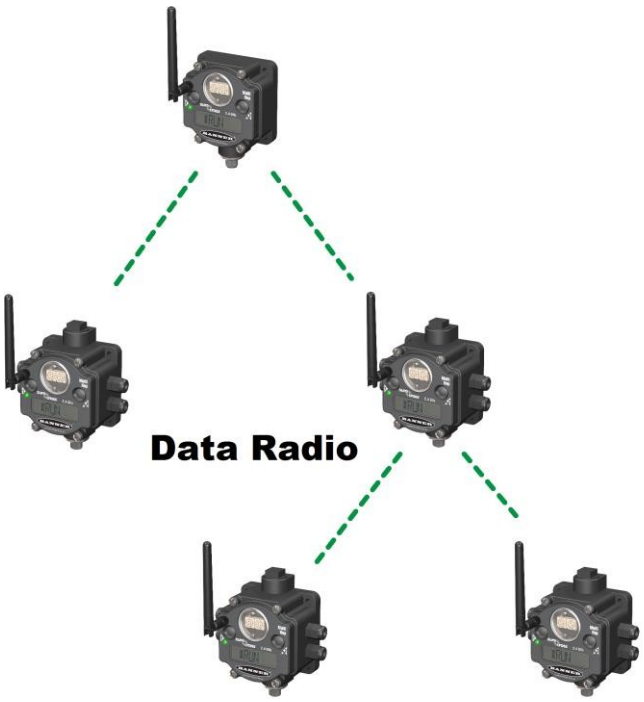
Wireless - 15-Points Plan

1. What type of signals should be transmitted wirelessly?

    a. **Sensor / Actuator signals** => Continue reading from point 2



    b. **Bus protocols** => Continue reading from point 3



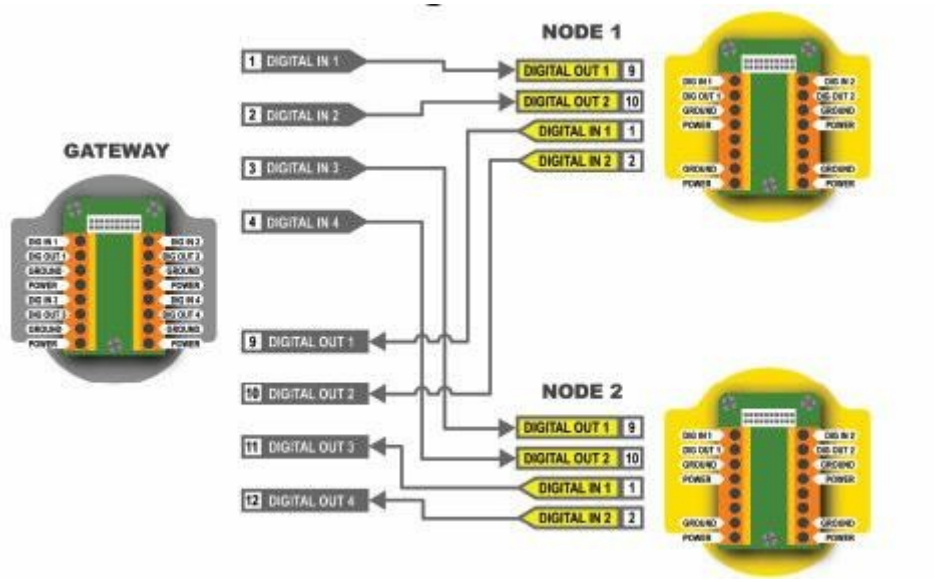
2. Must the system be connected to a bus? If not, continue reading from point 5

3. Which bus protocol has to be transferred, or which bus connection is required?

4. How many access points, or devices are required?

5. What protection is required, IP20 or IP67? Does the application allow the use of external antennas or are internal antennas preferred?

6. If desired, what type of IOs and how many of them must be transferred? How does the IO-Linking look like? If necessary, a drawing similar to the picture below should be made. Otherwise, continue reading from point 8.



7. What field devices are connected to the wireless components? How often must their signals be evaluated?

8. Can these wireless components be supplied with 10 ... 30 VDC or is it necessary to resort to a battery solution? Would a solar panel be an alternative?

9. Is an application in hazardous areas planned? If so, which devices are to be used in what zone?

10. What should the reaction speed of all IOs be?

11. Has a site survey already been carried out and if so, with what result? If not, how great are the distances to be bridged?

12. What is the required transmission interval to transmit the data wirelessly? In what time periods are they needed?

13. How many missed data packets will trigger a disconnection and how should the system and in particular the IOs behave in this case?

14. What are the consequences of a failure of the wireless system? What is the worst case expected?

15. What conditions regarding location and environment are to be expected? What accessories, e.g. assembly aids, are required?