

КОНТРОЛЛЕР ДАТЧИКОВ RS485

Контроллер датчиков КД работает по интерфейсу RS485 совместно с конвертором RS232-RS485 (HUB RS485) и обеспечивает контроль 16 охранно-пожарных шлейфов. Внешний вид устройства



Особенности устройства:

1. Устройством контролируются следующие события:

- 1.1 Обрыв шлейфа.
- 1.2 Короткое замыкание шлейфа.
- 1.3 Сработка датчика на шлейфе.
- 1.4 Нормальное состояние шлейфа.

Устройство может работать с датчиками с замкнутыми или разомкнутыми сухими (например геркон) контактами. Подключение датчиков показано на Рис 1.

2. Контроллер является адресным устройством. Адрес каждого устройства устанавливается DIP-переключателем. Максимальное количество контроллеров на линии 32.

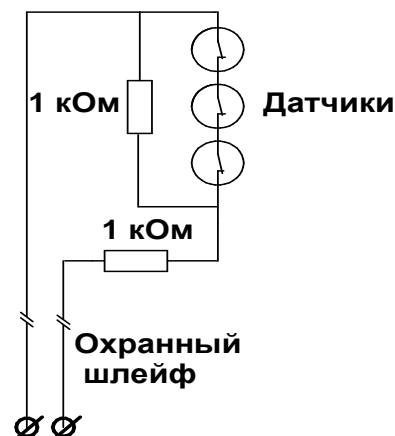
3. В качестве линии связи контроллера с HUB RS485 используется двухпроводная витая пара протяженностью до 1200 метров.

4. Питание контроллера может осуществляться как от сети переменного тока 220В через клемму X4, так и от источника постоянного напряжения 12 \pm 2В) через клемму X3. Полярность подключения 12В указана на корпусе устройства.

4. Контроллер предназначен для установки внутри помещения и рассчитан на круглосуточный режим работы. Установка устройства производится в металлический щитовой шкаф, с креплением на DIN- рейку. Также необходимо произвести заземление через земляной контакт клеммы X3

5. Конструкция контроллера не предусматривает его использование в условиях воздействия агрессивных сред, пыли, а также в пожароопасных помещениях.

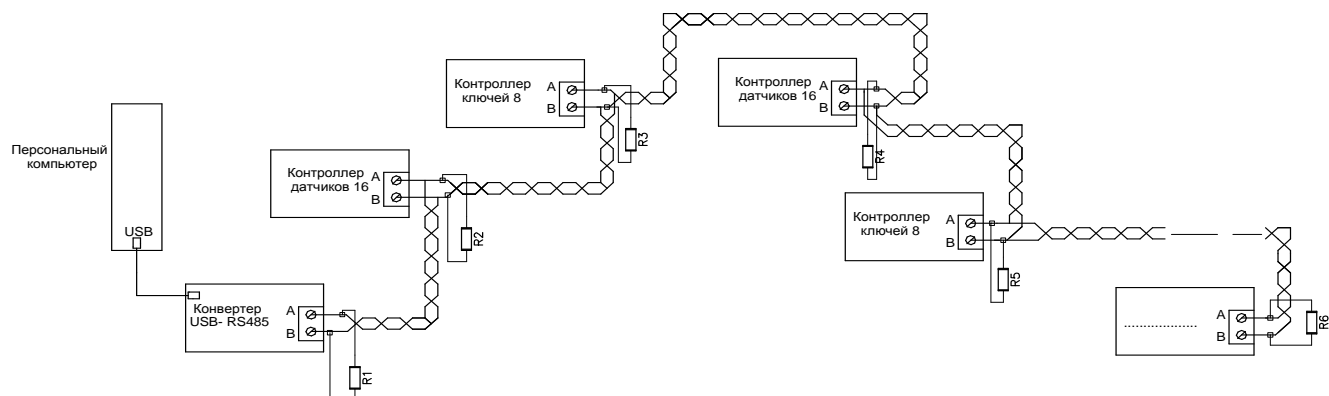
СХЕМА ПОДКЛЮЧЕНИЯ ДАТЧИКОВ К КОНТРОЛЛЕРУ



Сопротивления по 1 кОм с допуском не более 10% устанавливаются либо рядом с датчиком или монтируются внутри него.

Рекомендации по подключению интерфейса RS485:

Подключении витой пары необходимо производить к контактам А и В соответственно на всех устройствах. При протяжённости линии более 100 метров требуется применение резисторов-терминаторов сопротивлением 120 Ом согласно приведённой ниже схеме (см.рис 2). Иначе возможно искажение цифровых сигналов на 485 линии, что неизбежно приведёт к ошибкам в управлении и передачи данных.

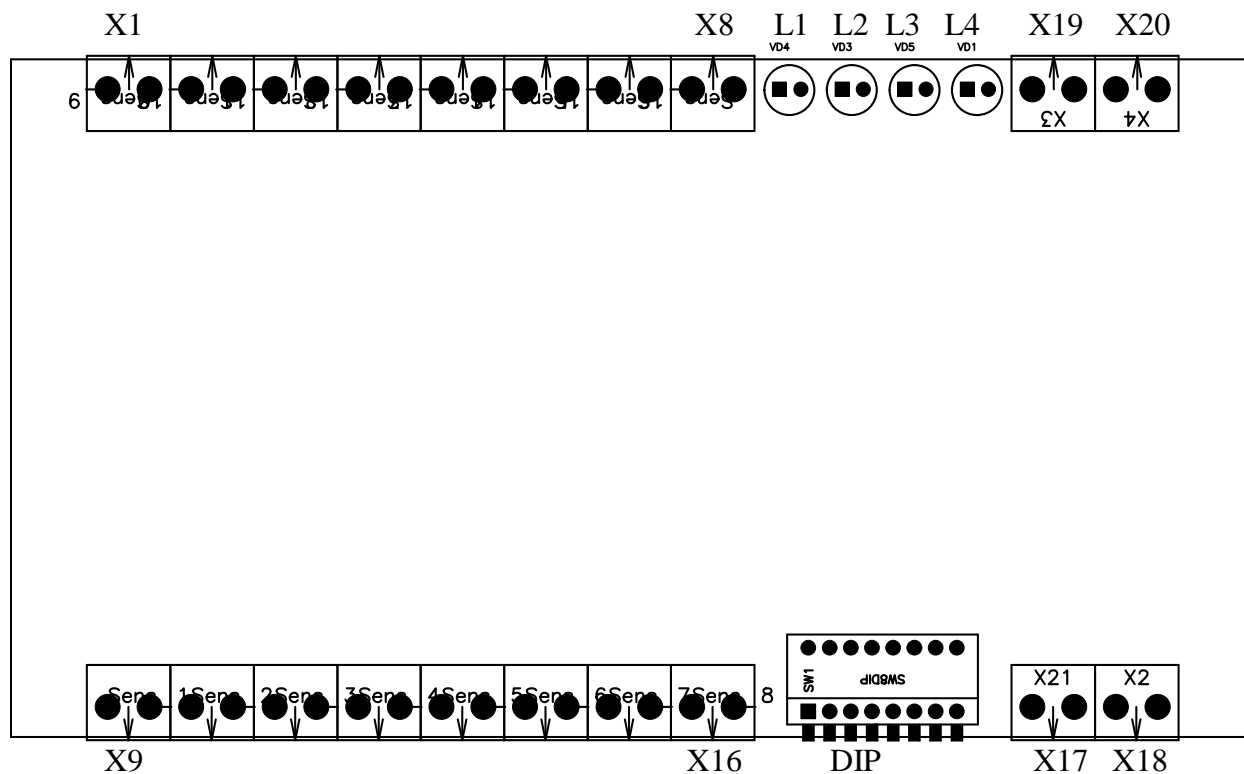


R1-R6- резисторы сопротивлением 120 Ом

рис.2

Основные технические характеристики.

| | |
|--|---------------|
| Напряжение питания, В | ~220 |
| Ток потребления (max), mA | 80 |
| Количество контролируемых шлейфов | 16 |
| Максимальное сопротивление шлейфа, кОм | 2 |
| Удаленность контроллера от хаба, м | 1200 |
| Габариты (Д x Ш x В), мм | 145 x 75 x 60 |



X1-X16 разъёмы подключения датчиков

DIP - переключатель адреса устройства

X17- Выход ALARM 5В (КМОП).

X18- Линия RS 485

X19- 12В
X20- ~220В

Индикация:

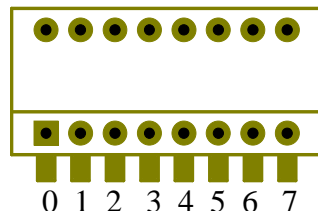
L1 передача RS485

L2 приём RS485

L3 аварийный режим

L4 наличие питания устройства

DIP



адрес выставляется в двоичной форме включением соответствующих разрядов:

| Адрес | Конфигурация переключателя адреса | | | | | | | |
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