

## FLS03

### LABEL DETECTION FORK SENSOR

- 3mm slot width
- integrated amplifier
- robust aluminium housing
- AutoTeach/external-teach or potentiometer
- NPN and PNP - light-on and dark-on
- high resolution

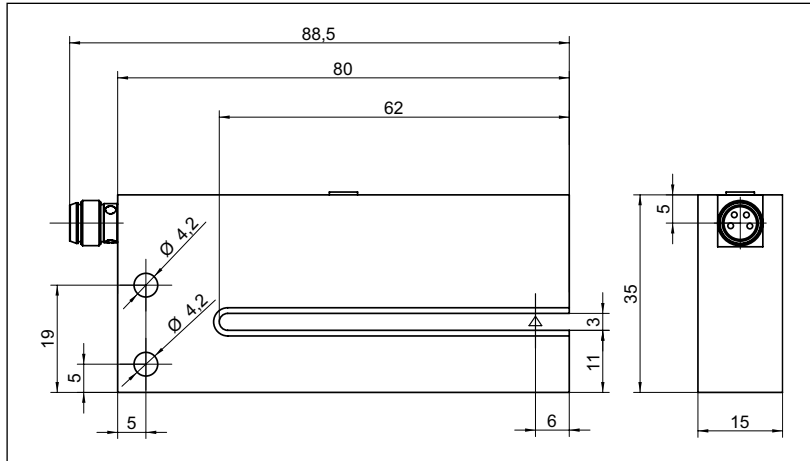


FLS03

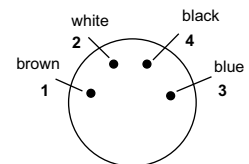
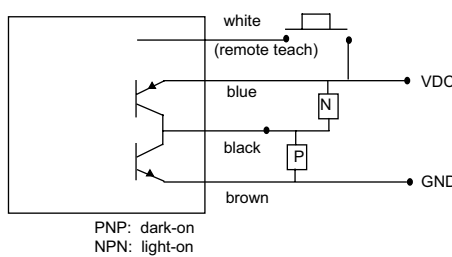
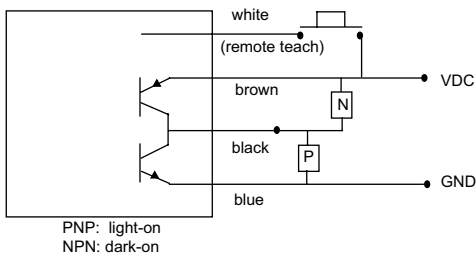
#### GENERAL TECHNICAL DATA

	FLSP03-AP/N	FLST03-AP/N
operating voltage	10...30 VDC, reverse polarity protected	
current consumption	< 40mA	
output	push-pull; PNP/NPN	
output current	100mA	
function indicator	LED green	
max. frequency response	10kHz	
functional principle	continuous light	
switching function	light-on or dark-on	
light type	infrared 880nm	
response time	50µs	
sensitivity adjustment	potentiometer, multiturn	key or external teach-input
housing material	aluminium, black anodized	
operating temperature	-10°C...+60°C	
protection class	IP50	
max. light immunity	3000 lux	
resolution	0.5mm	1mm
reproducibility	0.1mm	
hystereses	<0.4mm	

**DIMENSION**



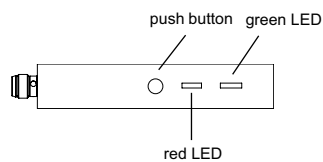
**CONNECTION DIAGRAM**



for **FLST03-AP/N**: PIN 2 remote teach-in  
If the remote teach-in (white) is not used, link it to GND!

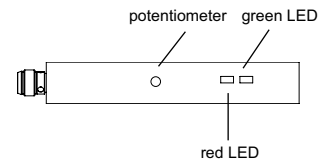
for **FLSP03-AP/N**: PIN 2 is not connected

**SET UP INSTRUCTION for FLST03-AP/N:**



1. insert label, then push button (or remote: min.50ms) → red LED blinking slow (regardless if button is pressed or not) teach-in mode starts
2. move label through the sensor (min. 3 labels) → teach-in mode still active
3. push button again (or remote: min. 50ms) → teach-in procedure is finished
4. if no label is detected → red LED blinking fast
5. after succesful teach-in → green LED on (without label)

**for FLSP03-AP/N:**



1. insert label backing
  2. turn potentiometer to the left until red LED lights
  3. turn potentiometer to the right until green LED lights
  4. turn potentiometer 1 to 3 rotations further to the right depending on contrast between backing and label
  5. after successful teach-in:
- red LED on with label
  - green LED on without label

**PART DESIGNATION**

**FLSP03-AP/N** = fork width 3mm - Potentiometer - PNP and NPN

**FLST03-AP/N** = fork width 3mm - AutoTeach - PNP and NPN

**Please do not forget to order the appropriate power supply cable!**