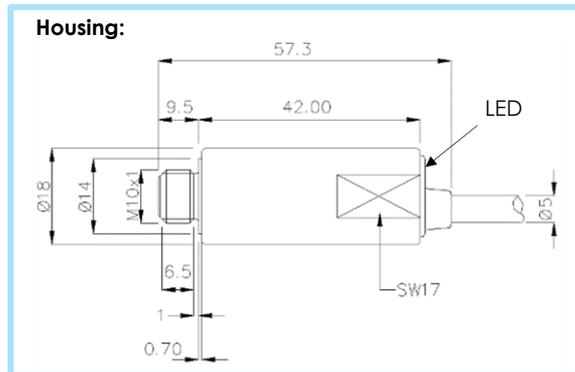


- Inductive proximity sensor with speed control
- Cable output
- Direct activation of contactors and relays in AC
- Waiting time 8 min. , speed threshold 8÷35 pulse/min



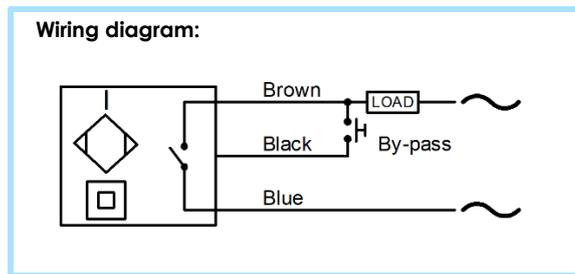
Materials:
 Housing: anodized aluminium
 Cable: 2mt PVC Grey 3x0.50mm² CEI 2022 II 90°C 300V

Mechanical data:
 Mounting: Flush (Shielded)
 Max tightening torque SW17: 8Nm

Alarm thresholds:
 Low speed alarm threshold: <8 pulses/min
 High speed alarm threshold: >35 pulses/min
 Timing tolerances: 10%

Status display
 Yellow LED blinking: 8 min. initial waiting time
 Yellow LED steady: Output ON; speed OK

Red LED blinking: 8 min. alarm waiting time
 Red LED steady: 8 consecutives alarms (the last alarm was a speed alarm)
 Red LED slow blinking: 8 consecutives alarms (the last alarm was a short circuit detection)



Use of the sensor:
 On power-on the yellow LED blinks and the output stays OFF for 10 seconds. After this "initial waiting time" the yellow LED stays fixed and the output switches in ON state (active condition), driving the relay which will drive the motor. During the first 20 sec. of the "active condition" the output stay ON independently by the rotational speed. After this time the rotation speed is monitored, and the sensor goes in the "alarm condition" if the speed is lower than 8 pulses/min or higher than 35 pulses/min. During the "alarm condition" the yellow LED switches off, red LED blinks and the output stays OFF for an "alarm waiting time" of 8 minutes. Once ended the "alarm waiting time" the sensor restarts the "active condition". If "alarm condition" is repeated for 8 consecutive times, the sensor goes in the "permanent alarm condition", the output stays OFF and the red LED shows the last alarm condition until the sensor is switched off. After any right restart, the speed is ok after initial 20 sec. of "active condition", or power-on the consecutive alarm counter is reset. It is possible avoid the "initial waiting time" or the "alarm waiting time" by activating the by-pass, connecting for a while the black wire to the brown wire as showed in the connection diagram. The sensor is protected against over voltage and short-circuit of the load.

Technical data:

• Working voltage:	90÷253Vac
• Electrical system frequency:	40÷60 Hz
• Off-state current at 220V:	<2.2 mA
• Minimum operational current:	8 mA
• Rated operational current:	200 mA
• Voltage drop:	<8V
• Sensing distance (Sn):	2 mm ±10%
• Switching hysteresis (H):	<10% Sn
• Repeat accuracy (R):	<2% Sn
• Max switching frequency:	25 Hz
• Working temperature range:	-20÷ +70°C
• Max thermal drift of sensing distance Sn:	±10%
• Degree of protection:	IP67

Electromagnetic compatibility (EMC) according to EN IEC 60947-5-2
 Class 2 equipment according to EN61140
 Shock and vibration according to EN 60068-2-27 and EN60068-2-6

ORDERING REFERENCES

ALS10/4609AKS-B