

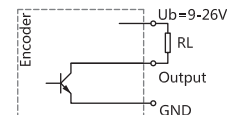
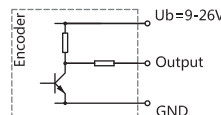
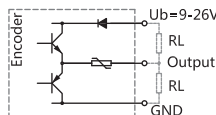


| | |
|-----------------|---------|
| ECK38S Series | |
| Sensing method | Optical |
| Housing size | Φ38mm |
| Shaft diameter | Φ6mm |
| Max. resolution | 600PPR |
| Supply voltage | 9-26VDC |
| Protection | IP54 |

Mechanical characteristics

| | |
|-------------------------|---|
| Shaft diameter | Φ6mm |
| Protection | IP54 |
| Speed | Max. 6000 min ⁻¹ |
| Shaft loading | Max. 20N Axial; max. 40N Radial |
| Shock resistance | 50g, 6ms |
| Vibration resistance | 10g, 10...2000HZ |
| Bearing life | 10 ⁹ turns |
| Rotor moment of inertia | Approx. 1.8×10 ⁻⁶ kgm ² |
| Starting torque | <0.005Nm |
| Materials | Solid shaft : Stainless steel Flange : Aluminum alloy Housing : Tensile iron shell +Black painted |
| Working temperature | 0 C...+60 C |
| Storage temperature | -40 C...+70 C |
| Weight | Approx. 83g |

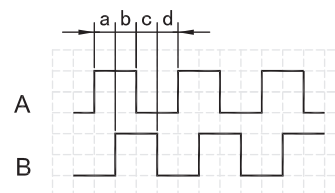
Electrical characteristics



| Output circuit | Push-Pull | Voltage | Open Collector |
|-----------------------------|--------------|--------------|----------------|
| Pulse rate | Max. 600 P/R | Max. 600 P/R | Max. 600 P/R |
| Supply voltage | 9-26V | 9-26V | 9-26V |
| Power consumption(no load) | Max. 125 mA | Max. 125mA | Max. 80 mA |
| Permissible load/channel | Max. ±80 mA | / | Max. -50 mA |
| Pulse frequency | Max. 20KHz | Max. 20KHz | Max. 20KHz |
| Signal level high | Min. Ub-2.5V | Min. Ub-2.5V | / |
| Signal level low | Max. 0.8V | Max. 0.4V | / |
| Rise time Tr | Max. 1μs | Max. 2μs | / |
| Fall time Tf | Max. 1μs | Max. 2μs | / |
| Short circuit proof outputs | No | No | No |

Terminal assignment

| | | | | | | |
|--------------|--|----|-----|----|----|--------|
| Signal | | OV | +Ub | A | B | ⏏ |
| Cable Colour | | WH | BN | GN | YE | Shield |



Shaft turning clockwise, top-view of shaft.
a, b, c, d = T/4 ± T/8

Ordering information

| | | | | | | | | | |
|--------|----------|----------|------------|----------|-------------|----------|----------|---|-------------|
| ECK38S | 6 | B | 600 | F | 9-26 | R | 2 | / | XXXX |
| | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | | ⑧ |

| | | | | | |
|----------------------------|----------------------|------------------------------------|---|-------------------------------------|--|
| ① Shaft diameter 6: 6mm | ② Channels B: A B | ③ Pulse rate 300、360 400、600 | ④ Output circuit F: Push-Pull C: Open Collector E: Voltage | ⑤ Supply voltage 9-26: 9...26VDC | ⑥ Exit position R: Radial C: Axial |
|----------------------------|----------------------|------------------------------------|---|-------------------------------------|--|

| | |
|--|------------------------|
| ⑦ Connection type Figure: Cable length(m) | ⑧ Special code XXXX |
|--|------------------------|

Note: Printed in bold=standard items

Notes: 1, Pulse rates available at a short notice (300、360、400、600) , other pulse rates on request.

2, Please chose the ordering information: Shaft diameter、Channels、Pulse rate、Output circuit、Supply voltage、Exit position、Cable length and Special code.

Ordering example: ECK38S6B600F9-26R2, Special requirements please indicate to the back.

Explanation: ECK38S Series , Shaft diameter 6mm, Output channels A、B, 600PPR, Push-Pull, 9-26VDC, Radial Output 2m.

Accessories (sold separately) Note: Further coupling can be found in the coupling selection table.

Coupling

Model (common) : 8212 6-6



Dimensions

ECK38S

