

Multi-voltage Universal AC or DC Photoelectric Switches SQ



- Multi-voltage AC/DC
- Diffuse, Reflective and Through-beam
- Relay output SPDT
- Cable or M12 connector models
- Rotatable M12 connector
- Output and Power LED indicators
- Sensitivity adjustment (not all models)
- UL and cUL approved

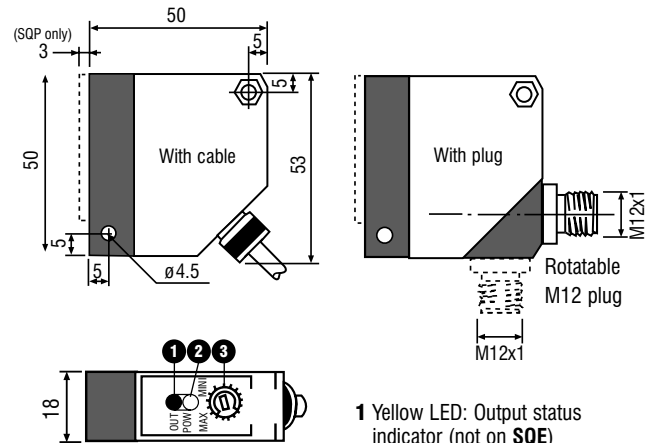


Options and ordering codes

| | |
|---|-------------------|
| Diffuse 1.8m range, pre-cable 2m, Relay normally OFF | SQD/A1.8-C |
| Diffuse 1.8m range, M12 connector, Relay normally OFF | SQD/A1.8-P |
| Reflective 13m range, pre-cabled 5m, Relay normally ON ⁽⁴⁾ | SQC/C13-C5 |
| Polarized reflective 6m range, pre-cabled 2m, Relay normally OFF | SQP/A6-C |
| Polarized reflective 6m range, M12 connector, Relay normally OFF | SQP/A6-P |
| Polarized reflective 6m range, pre-cabled 2m, Relay normally ON | SQP/C6-C |
| Polarized reflective 6m range, M12 connector, Relay normally ON | SQP/C6-P |
| Receiver 20m range, pre-cabled 2m, Relay normally OFF | SQR/A20-C |
| Receiver 20m range, M12 connector, Relay normally OFF | SQR/A20-P |
| Receiver 20m range, pre-cabled 2m, Relay normally ON | SQR/C20-C |
| Receiver 20m range, M12 connector, Relay normally ON | SQR/C20-P |
| Emitter 20m range, pre-cabled 2m | SQE/O20-C |
| Emitter 20m range, M12 connector | SQE/O20-P |

Standard range shown, for other variants please contact IMO. Bracket and fixing screws are included unless specified

Outline dimensions (mm)



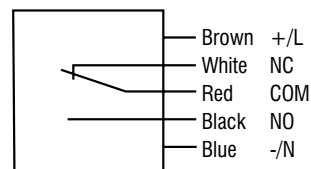
- 1** Yellow LED: Output status indicator (not on **SQE**)
- 2** Green LED: Power ON indicator
- 3** Potentiometer: To increase sensitivity turn towards **MAX** to decrease turn towards **MIN**

Specification

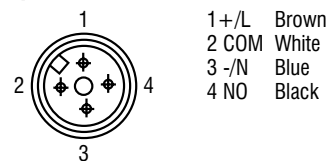
| Type | Diffuse | Reflective | | Through-beam | |
|----------------------------------|--|--------------------|-------------------|----------------|----------|
| | | Standard | Polarized | Receiver | Emitter |
| Model | SQD | SQC | SQP | SQR | SQE |
| Supply voltage (50/60Hz) | 12-253 V AC/DC | | | 15-253 V AC/DC | |
| Nominal sensing (Sn) | 0.2-1.8M ⁽¹⁾ | 13m ⁽²⁾ | 6m ⁽²⁾ | 20m | |
| Tolerance | ± 10% Sn | | | | |
| Hysteresis | 10% | | | | |
| Emission | IR 875nm | IR 875nm | Red 660nm | N/A | IR 875nm |
| Response time t_{on} t_{off} | 100ms | | | | |
| Switching frequency | 10 Hz | | | | |
| Sensitivity adjustment | 1 turn pot | N/A | 1 turn pot | N/A | |
| Output type | Relay | | | | |
| Contacts | Pre-cabled SPDT, M12 plug connector NO | | | | N/A |
| Max. output current | 3A 30V AC - 1A 220V AC | | | | N/A |
| Max. switching power | 90W, 360 VA | | | | N/A |
| Temperature range | -10 to +60 °C | | | | |
| External light immunity | > 10,000 Lux ⁽³⁾ | | | | N/A |
| Protection degree | IP65 | | | | |
| Housing material | Housing ABS--Lenses: Methacrylate | | | | |

Wiring connections and outputs

Cable output: SQE Brown/Blue connections only



Plug output



⁽¹⁾ Determined with white mat paper 4000mm²
⁽²⁾ Determined with RL110 reflector (reflector not included)
⁽³⁾ Determined with halogen tungsten lamp (3000°K)
⁽⁴⁾ Do not include Bracket/fixing screws