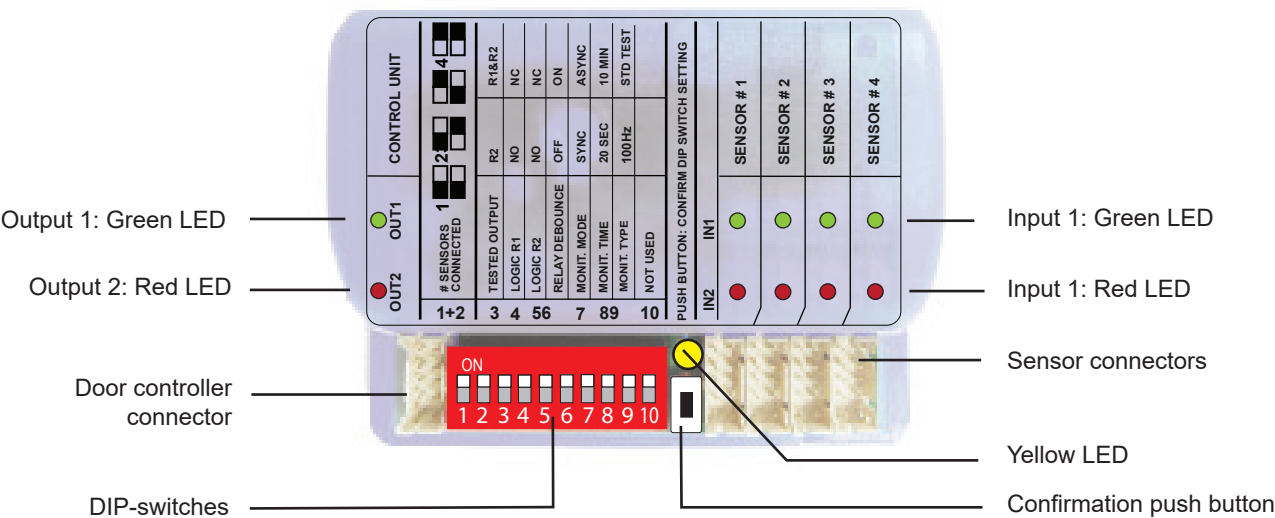


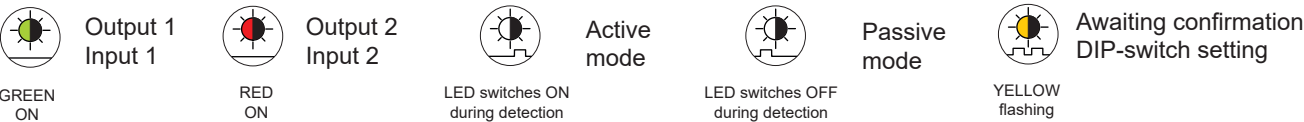
MULTI-SENSOR HUB

Hub for IXIO, Flatscan, 4SAFE

DESCRIPTION



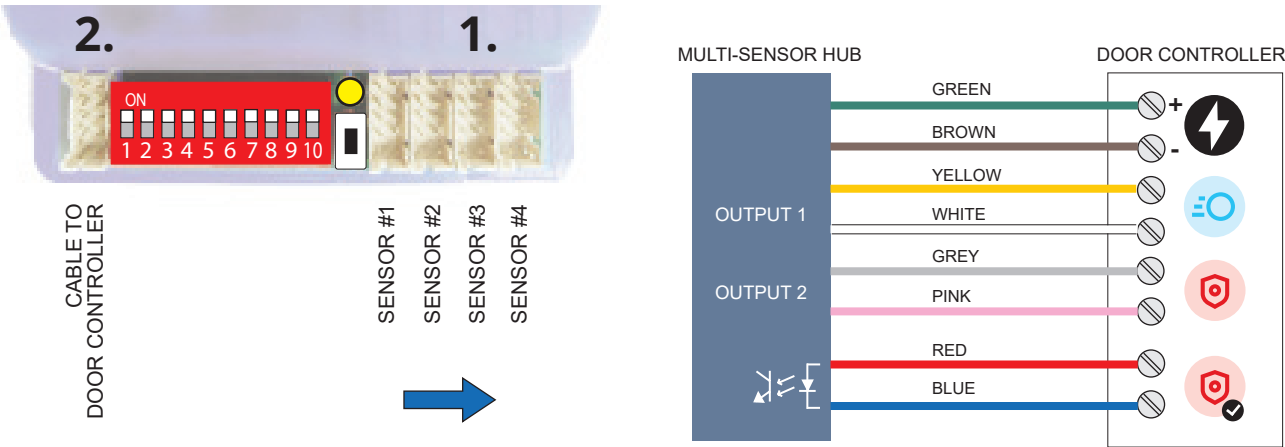
LED SIGNAL



TECHNICAL SPECIFICATIONS

Max. load current:	2 A
Supply voltage:	12 V DC - 24 V DC +10% (min. 16 V DC @ max. load current)
Output to door controller:	2 galvanically isolated outputs (OPTOFET; UMAX= 42 V DC; IMAX= 100 mA) maximum output power dissipation: 200 mW off-state leakage current: 10 µA on-state maximum resistance: 20 Ohms
Monitoring input from door controller:	1 galvanical isolated input (Optocoupler; max 30 V DC (6 mA)); voltage threshold: logic high: >10 V DC (2 mA); logic low: <1 V DC
Input from each sensor:	2 non-isolated inputs
Monitoring output to each sensor:	1 non-isolated output (UOUT= USUPPLY; IMAX= 50 mA)
Monitoring response time:	from 200µs to 50ms (depending on sensors & hub setting)
LEDs:	red & green for status display of each connected sensor red & green for hub output status display orange for DIP-switch status change display
Temperature range:	from -25° to +60° (for indoor use only)
Dimensions:	70 mm (L) x 55 mm (H) x 25 mm (D)
Housing material:	PC flame retardent (translucent)
Length of sensor cables:	2.70 m
Length of power cable:	2.60 m

WIRING



- 1. Connect the sensors (from #1 to #4) to the sensor connectors starting from the left using the cables that have connectors on both ends.
- 2. Connect the cable with only one connector from the Hub to the door controller (see wiring diagram).

DIP-SWITCH SETTINGS

DIP1	Number of sensors connected to the Hub	<div><div>ON</div><div>1 2 3 4 5 6 7 8 9 10</div></div>	<div><div>ON</div><div>1 2 3 4 5 6 7 8 9 10</div></div>	<div><div>ON</div><div>1 2 3 4 5 6 7 8 9 10</div></div>	<div><div>ON</div><div>1 2 3 4 5 6 7 8 9 10</div></div>
DIP2		1 Sensor	2 Sensor	3 Sensor	4 Sensor
DIP3	Tested Output(s)	<div><div>ON</div><div>OFF</div></div>	<div>R1 & R2 (e.g. Flatscan SW, 4SAFE)</div> <div>R2 (e.g. IXIO, Flatscan W)</div> <div>The selected test mode is applicable for all connected sensors. Do not mix sensor types.</div>		
DIP4	Logic R1 (Output configuration)	<div><div>ON</div><div>OFF</div></div>	<div>NC</div> <div>NO</div> <div>Check the output logic on the connected sensors. The output logic has to be the same on the Hub and on all connected sensors (see LED-signal).</div>		
DIP5	Logic R2 (Output configuration)	<div><div>ON</div><div>OFF</div></div>	<div>NC</div> <div>NO</div> <div>Check the output logic on the connected sensors. The output logic has to be the same on the Hub and on all connected sensors (see LED-signal).</div>		
DIP6	Relay debounce avoids the bouncing of the relay contact during a monitoring request	<div><div>ON</div><div>OFF</div></div>	<div>ON</div> <div>OFF</div> <div>Recommended when the monitoring input is connected to a relay output on the door controller.</div> <div>Set to OFF for a faster response time.</div>		
DIP7	Monitoring mode The monitoring has to be active on all connected sensors!	<div><div>ON</div><div>OFF</div></div>	<div>Asynchronous</div> <div>Synchronous</div> <div>The Hub sends a monitoring request to all connected sensors every x seconds (according to DIP 8 setting), independent of the door controller. When the door controller sends a monitoring request to the Hub, it answers immediately giving the result of the last monitoring cycle.</div> <div>The Hub sends a monitoring request to all connected sensors only when the door controller sends a monitoring request to the Hub. The response time on monitoring request is dependent on response time of the connected sensors.</div>		
DIP8	Monitoring cycle time in asynchronous mode	<div><div>ON</div><div>OFF</div></div>	<div>10 Min</div> <div>20 Sec</div> <div>The Hub sends a monitoring request to all connected sensors every 10 minutes (only in asynchronous mode).</div> <div>The Hub sends a monitoring request to all connected sensors every 20 seconds (only in asynchronous mode).</div>		
DIP9	Monitoring type	<div><div>ON</div><div>OFF</div></div>	<div>Standard voltage monitoring</div> <div>Signal output 100 Hz</div> <div>Most frequently used type of monitoring using test input.</div> <div>Only if your door controller is compatible with this type of monitoring.</div>		

DIP10 Not used

After changing one or more DIP-switch settings, the yellow LED flashes. Confirm the new setting(s) by pushing the push button until the LED switches off. The setting is confirmed.

