

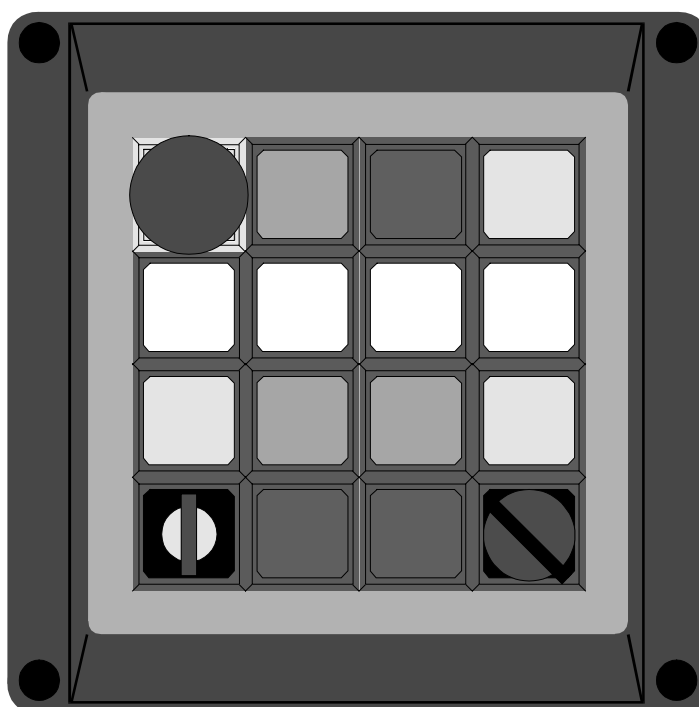
Display and Control Modules for the Industrial PC

■ M6320: Command Module with Fibre Optic Bus

The M6320 Command Module can be fitted with switch elements to customer requirements. Switch conditions are input via I/O fibre optic bus, signal lamps are controlled from a centralised module.

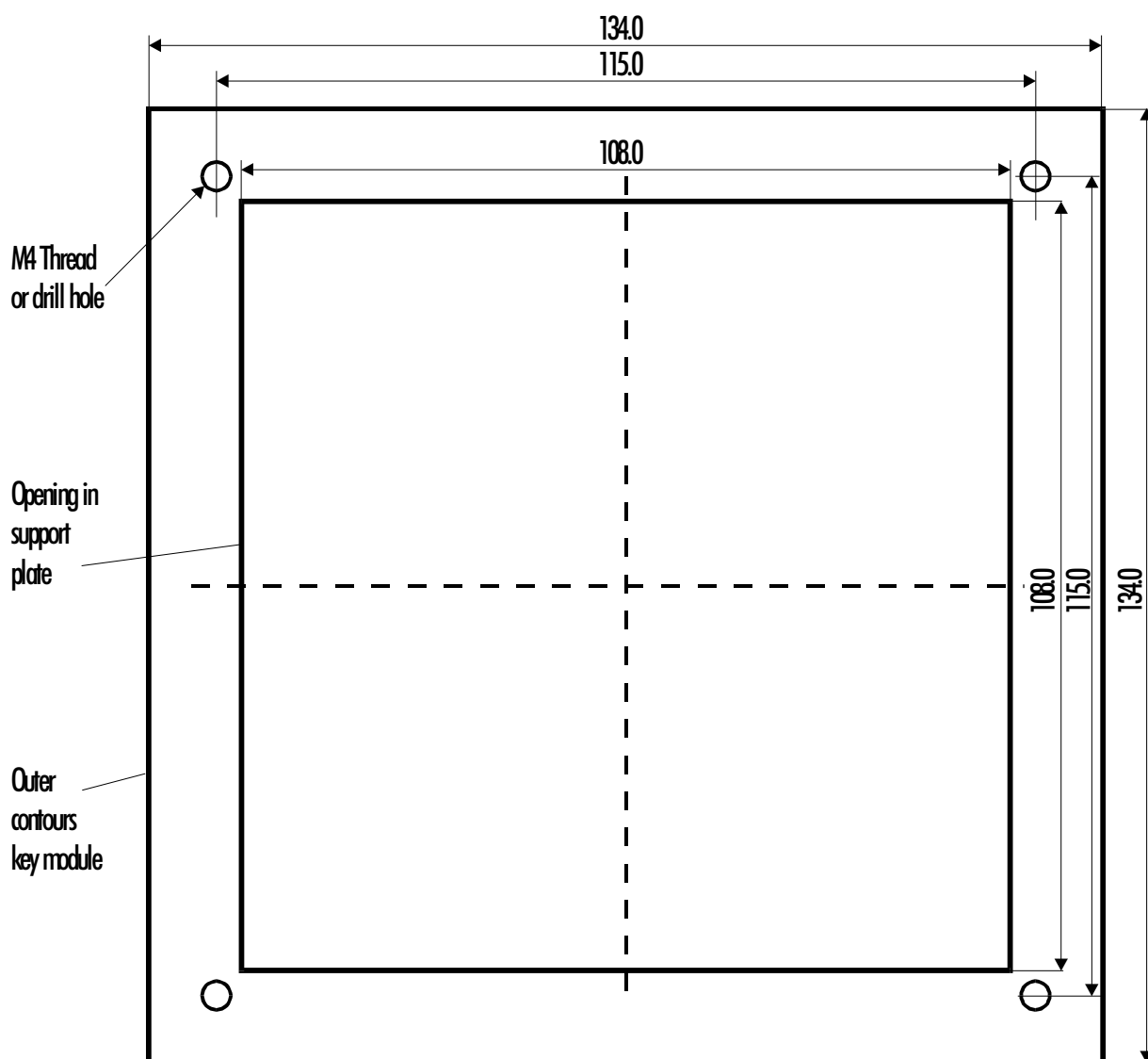
A section of the module is wired to screw terminals for external device connection. e.g. emergency stop switches.

- 4 x 4 keyboard can be fitted as desired with keys, signal lights, key switches etc.
- 16 electromechanical lamp switches interfaced to an I/O fibre optic bus as close-contact inputs and lamp outputs.
- 4 switches additionally hardwired as change-contact to an external connector.
- Electromechanical elements manufactured by Schlegel
- available in aluminum housing (M6320) or panel mount (M6321)
- available in the following formats:
 - 16 keys (M6320-000)
 - 15 keys and emergency off (M6320-001)
 - keyless (M6320-010)
 - customer specification (M6320-030)



Mechanics

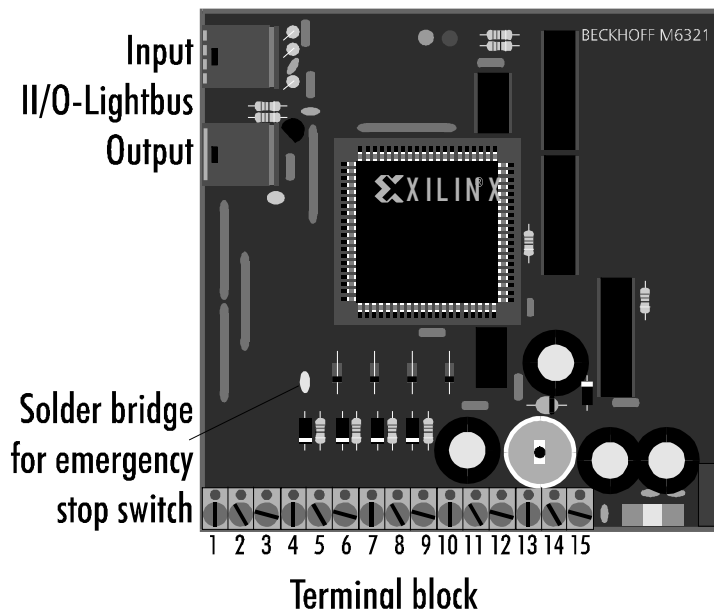
- Aluminum pressed housing : 160 x 160 x 117mm ROLEC type
- Panel mount: 134 x134mm, required opening: 108 x 108mm, see below
- If the rear panel of the equipment is not accessible when fitted it will be necessary to fit the terminal connectors prior to mounting the module in the housing; in this event the opening needs to be 118 x 108mm. The required diagrams are available on request.
- Fitting depth 78mm below front panel
- Switch layout: see page 1
- Protection: in aluminum housing IP65
panel mount front side IP65
- Fitting in customer specific housing is possible as an option.



General electrical attributes

- 16 electromechanical, close-contact lamp switches, manufacturer SCHLEGEL series OKTRON. Optionally the first 4 keys can be interfaced as change-contact switches to a terminal block for 24V connection. The first key is configured as an individual terminal connection for emergency stop function. In 24V applications the first 4 keys are galvanically isolated.
- Power requirements 24V DC, 200 mA + 30 mA per lamp

100	101	102	103
200	201	202	203
204	205	206	207
208	209	210	211



Terminal Nr.	Function
1	13 from Emergency off
2	14 from Emergency off
3	21 from Emergency off
4	22 from Emergency off
5	13/21 from Switch 101
6	14 from Switch 101
7	22 from Switch 101
8	13/21 from Switch 102
9	14 from Switch 102
10	22 from Switch 102
11	13/21 from Switch 103
12	14 from Switch 103
13	22 from Switch 103
14	0 V
15	+24 V supply

II/O-Fibre Optic Bus Code Layout

M6320	D0	D1	D2	D3
	Inputs for swtiches 100 - 103 and 200 - 211		Outputs for lamps 100 - 103 and 200 - 211	

Signal	Function
D0.0	Input Switch100
D0.1	Input Switch101
D0.2	Input Switch102
D0.3	Input Switch103
D0.4	Input Switch200
D0.5	Input Switch201
D0.6	Input Switch202
D0.7	Input Switch203
D1.0	Input Switch204
D1.1	Input Switch205
D1.2	Input Switch206
D1.3	Input Switch207
D1.4	Input Switch208
D1.5	Input Switch209
D1.6	Input Switch210
D1.7	Input Switch211

Signal	Function
D2.0	Output Lamp100
D2.1	Output Lamp101
D2.2	Output Lamp102
D2.3	Output Lamp103
D2.4	Output Lamp200
D2.5	Output Lamp201
D2.6	Output Lamp202
D2.7	Output Lamp203
D3.0	Output Lamp204
D3.1	Output Lamp205
D3.2	Output Lamp206
D3.3	Output Lamp207
D3.4	Output Lamp208
D3.5	Output Lamp209
D3.6	Output Lamp210
D3.7	Output Lamp211

Fittings

- All switches from the SCHLEGEL OKTRON programme, which can be combined with normal switches, may be fitted to the module.
- switch covers are available in a choice of white, green, yellow, blue or red.
- switch labels are available as inserts in standard symbol format or blank for specific labelling.

Wiring notice

- The top switch row is configured for 5V operation as standard. It is possible to operate the equipment in 24V configuration without modification. In 24V configuration it is necessary to apply the supply voltage to change-contacts 13/21 and the load to close-contact 14 and/or open-contact 22.
- All 4 contacts of the optional emergency stop switch are accessible on the terminal block. In special applications the 5V supply on contact 13.0 may not be required. The removal of the solder bridge on the circuit board will disconnect the 5v supply to contact 13.0 The position of the solder bridge can be seen on the diagram on page 3.
Contact 14.0 of the close-contact switch remains connected to input D0.0 while contacts 21-22 of the open-contact switch are available as a potential-free contacts.