



SIL4 SOLID STATE SIGNALLING RELAYS

INNOVATING SAFETY FOR YOUR TRAIN NETWORKS

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HEAD OFFICE
13 TREVI CRESCENT,
TULLAMARINE, VIC 3043
TEL +61-3-9335 0600
EMAIL INFO@SELECTRAIL.COM

SELECTRAIL®

TECHNICAL DATA

The **SELECTiQ**® has been designed to improve reliability, performance and functionality over its electromechanical predecessors.

Incorporating customer feedback, the SELECTiQ has been designed to provide everything required to bring projects to market in a timely and cost-effective manner.

FEATURES

- SIL4
- No moving parts
- Reduced maintenance requirements
- Reduced lead time
- 100% solid state technology
- No more contact resistance issues
- Consistent operation in wider environments.
- Backward and upward compatibility with existing electromechanical relays
- Accurate and consistent repeatability
- User friendly display
- Improved PIN code retaining plate design
- Longer life
- Increased reliability
- Patented design
- AC & DC switching or DC only switching (on request)
- BR930 Q relay form factor
- Compatible with existing BR829 Q relay plugboards (interlocking pin code permitting)

FEATURE 2

The SELECTiQ is controlled by two synchronized microcontrollers - 2oo2 composite architecture. Both microcontrollers must agree before the relay can change from its default (safe) state.

FEATURE 1

The highest Safety Integrity Level rating. SIL4



FEATURE 3

Improved PIN code retaining plate design.

TECHNICAL DATA

FEATURE 4

User friendly display provides simple and clear indication of operational status.

SPECIFICATIONS

- Contact Current Rating: 3.0A/channel
- AC Immune
- Approximate weight: 0.75kg
- Designed for Operating Temperature: -40°C to +70°C
- Low Power Consumption
- Available Biased or Non-Biased



FEATURE 5

Building upon the existing BR930 Q style platform enables retrofitting to existing relay installations/ plugboards.

FEATURE 6

100% solid state technology. No more contact resistance issues, no moving parts, high temperature stability, accurate and consistent repeatability. Backward and upward compatible with existing electromechanical relays.

FEATURE 7

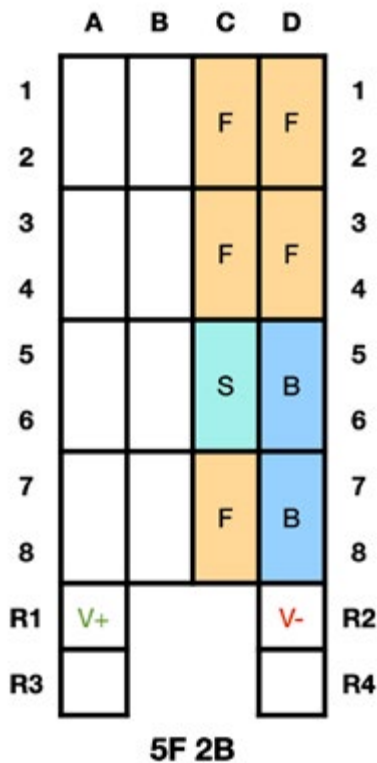
Contact feet made from new updated material providing greater performance. Also found in military and aerospace industries.

FEATURE 8

Analogue to digital converters accurately detect the applied control voltage, providing precise, clearly defined and highly repeatable control.

CONTACT LAYOUT:

Note: Layouts shown are when viewed from the rear of the relay.



(s)	Strapping
2.5	A1-B7 B7-B8
7.5	A1-B7 B7-A8
13.5	A1-B7 A8-B8
18.5	A1-B7 -
26	A1-B7 B7-B8
31	A1-B7 B7-A8
37	A1-B7 A8-B8
42	A1-B7 -
50	A1-B6 B7-B8
55	A1-B6 B7-A8
61	A1-B6 A8-B8
66	A1-B6 -
73	A1-A6 B7-B8
78	A1-A6 B7-A8
84	A1-A6 A8-B8
89	A1-A6 -
97	A1-B5 B7-B8
102	A1-B5 B7-A8
108	A1-B5 A8-B8
113	A1-B5 -
120	A1-A5 B7-B8

(s)	Strapping
125	A1-A5 B7-A8
131	A1-A5 A8-B8
136	A1-A5 -
144	A1-B4 B7-B8
149	A1-B4 B7-A8
155	A1-B4 A8-B8
160	A1-B4 -
167	A1-A4 B7-B8
173	A1-A4 B7-A8
178	A1-A4 A8-B8
184	A1-A4 -
191	A1-B3 B7-B8
196	A1-B3 B7-A8
202	A1-B3 A8-B8
207	A1-B3 -
214	A1-A3 B7-B8
220	A1-A3 B7-A8
226	A1-A3 A8-B8
231	A1-A3 -
238	A1-B2 B7-B8
243	A1-B2 B7-A8

(s)	Strapping
249	A1-B2 A8-B8
254	A1-B2 -
262	A1-A2 B7-B8
267	A1-A2 B7-A8
273	A1-A2 A8-B8
278	A1-A2 -
285	A1-B1 B7-B8
290	A1-B1 B7-A8
296	A1-B1 A8-B8
301	A1-B1 -
309	- B7-B8
314	- B7-A8
320	- A8-B8
325	- -

(s) - Delay Time nominal (seconds)

Times indicated are with DIP switches set to minimum.

iQSELECT2

FEATURES:

- Time delay relay
- Typical release time = 30ms
- Weight = 0.70kg
- Stick contact
- Recognises strappings & sets time range accordingly
- Visual indication of timing
- Digital clock accuracy
- Fine adjustment via DIP switches



Product Code	Nominal Working Volts (VDC)	Contacts	Operating Volts (VDC)	Release Volts (VDC)	PIN code
iQSELECT2-5F-2B-50	50	5F 2B	33	22	BDFHX