KNX Actuators for drives and devices in comparison

Features	**KNX S4-B10 230 V** 70530 **prior 70137**	**KNX S4** 70540	**KNX S2-B6 230 V** 70531 **prior 70181**	**KNX S2** 70541	**KNX S1-B2 230 V** 70532 **prior 70180**	**KNX S1R-B4 PF** 70204	**KNX S4-B12 24 V** 70138	**KNX S1R-B4-UP 230 V** 70203	**KNX S1R-B2-UP 230 V** 70202	**KNX S1R-UP 230 V** 70201	**KNX S1R-B4-UP 24 V** 70206	**KNX S1E-B4-UP 230 V** 70209	**KNX S1E-B2-UP 230 V** 70208	**KNX S1E-UP 230 V** 70207	**KNX S1E-B4-UP PS** 70205	**KNX S-B4T-UP 230 V** 70131	**KNX S-B2-UP 230 V** 70133	**KNX S-UP 230 V** 70135	**KNX S-B4T-UP 24 V** 70130	**KNX S-B2-UP 24 V** 70132	**KNX S-UP 24 V** 70134
Housing / Installation	DIN 6U[1]	DIN 6U	DIN 6U	DIN 6U	DIN 6U	DIN 6U	DIN 6U	FM[2]	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM
Pairs of buttons	4	4	2	2	1	1	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Operating voltage	230 V AC	230 V AC	230 V AC	Bus	230 V AC	Bus	24 V DC	Bus	Bus	Bus	Bus	Bus	Bus	Bus	230 V AC	230 V AC	230 V AC	230 V AC	24 V DC	24 V DC	24 V DC
Channels	4	4	2	2	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Multifunctional? (per 1x up/down or 2x off/on)	✓	Only up/down	✓	Only up/down	✓	✓	Only up/down	✓	✓	✓	Only up/down	Only up/down	Only up/down	Only up/down	Only up/down	Only up/down	Only up/down	Only up/down	Only up/down	Only up/down	Only up/down
Voltage outputs	230 V AC	Potential-free	230 V AC	Potential-free	230 V AC	Potential-free	12...24 V DC PC**	Potential-free	Potential-free	Potential-free	12...24 V DC PC**	230 V AC	230 V AC	230 V AC	24 V DC	230 V AC	230 V AC	230 V AC	24 V DC PC**	24 V DC PC**	24 V DC PC**
Outputs switch	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	electronic-ally	electronic-ally	electronic-ally	electronic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally	mechanic-ally
Separate voltage feed per channel?	–	✓	–	✓	–	–	✓	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Inputs digital	10	–	6	–	2	–	12	–	–	–	–	–	–	–	–	4	2	–	4	2	–
Inputs digital/analogue	–	–	–	–	–	4	–	4	2	–	4	4	2	–	4	–	–	–	–	–	–
Inputs analogue for temperature sensor	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	1	–	–
Voltage inputs	6...80 V DC, 6...240 VAC	–	6...80 V DC, 6...240 VAC	–	6...80 V DC, 6...240 VAC	–	6...24 V DC	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Drives: runtime measurement	✓*	–	✓*	–	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	–	–	–	–	–	–
Dead time (also auto.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	–	–	–	–	–	–
Positions feedback, Positions storage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Locking (Master/Slave)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Priority for safety functions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Priority manual/ automatic adjustable	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Safety objects per channel, with movement position	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Short term restriction (movement command blocked)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	–	–	–	–	–	–
Movement restriction	2	2	2	2	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Behaviour adjustable for bus voltage	• failure • return	• failure • return	• failure • return	• failure • return	• failure • return	• failure • return	• failure • return	• return	• return	• return	• return	• return	• return	• return	• return	• failure • return	• failure • return	• failure • return	• failure • return	• failure • return	• failure • return
Automatic Shading, Slat tracking	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Step command for slat turning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	–	–	–	–	–	–
Window automatic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scenes	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	8	8	8	8	8	8
AND-/OR- logic gates	–	–	–	–	–	4/4	–	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	–	–	–	–	–	–
Temperature thresholds	–	–	–	–	–	4	–	4	4	4	4	4	4	4	4	2	–	–	2	–	–

[1] *DIN = DIN Rail Mounting 6 Units* [2] *FM = Flush Mounting*

* *consider minimum current* ** *PC = Polarity changer*

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