

ALPS Encoders

ALPS SDDE SERIES: POWER SWITCH WITH ENCODER

- Two shafts are combined
Center shaft: Push switch (Unlatching)
Outside shaft: Encoder
- Zero standby power consumption is available by auto-off function with relay movement due to built-in both AC and DC contact in the push switch

- Both pulse and absolute output are available for the installed encoder
- Applications include Dryer, Micro wave oven, IH cooking heater, and Washing machine



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Current Rating	Voltage (V)	Style	Price Each			
						1	25	50	100
688-SDDEIC0101	SDDEIC0101	A	20mA	12	SMD/SMT	4.69	4.22	3.75	3.56

ALPS EC35A/EC35AH SERIES: LOW PROFILE RING TYPE ENCODER

- 2-phase incremental type encoder for general use
- Low-profile design with a 4.5mm body height
- Devices such as switches and LEDs can be mounted into its center therefore contributing to the final set's flexibility of design
- Good operation feeling and less shaft wobble

- Applications include volume control and function change for car AV equipment and navigation systems; temperature control for HVACs; menu selection for home appliances such as washing machines and microwave ovens; and other applications



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Actual Length	Detent Torque	No. of Detentst	Price Each			
						1	25	50	100
688-EC35AH260502	EC35AH260502	B	25mm	30±15mN·m	30	4.63	4.16	3.70	3.52
688-EC35AH120401	EC35AH120401	B	15mm	18±7mN·m	18	4.63	4.16	3.70	3.52
688-EC35A1520402	EC35A1520402	B	20mm	18±7mN·m	30	4.63	4.16	3.70	3.52

ALPS EC05E SERIES: 5MM SMD HOLLOW SHAFT ENCODERS

- Rating: 0.5mA @ 5VDC
- Operating Life: 100,000 cycles
- Tape and reel packaging
- Applications include level controls for MDs and CDs, controls for TVs and monitors, etc.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Rating	Detent Torque	Res.	No. of Detentst	Price Each			
							1	25	50	100
688-EC05E1220202	EC05E1220202	C	0.5mA @ 5VDC	1.6±1.3 mN·m	12	12	3.23	2.77	2.40	2.08
688-EC05E1220203	EC05E1220203	D	0.5mA @ 5VDC	1.6±1.3 mN·m	12	12	3.31	2.84	2.46	2.13
688-EC05E1220401	EC05E1220401	E	0.5mA @ 5VDC	1.6±1.3 mN·m	12	12	3.23	2.77	2.40	2.08

ALPS EC09E SERIES: 9MM METAL SHAFT ENCODERS

- Rating: 10mA @ 5VDC
- Operating Life: 15,000 cycles
- Incremental type
- Detent torque: 8±5mN·m
- Applications include level controls for MDs and CDs, controls for TVs and monitors, etc.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Push-On Switch	Travel of Push-On Switch	Res.	No. of Detentst	Price Each			
							1	25	50	100
688-EC09E1524404	EC09E1524404	F	With	1.5mm	15	30	6.06	5.19	4.33	3.89
688-EC09E1524405	EC09E1524405	F	With	0.5mm	15	30	5.81	4.98	4.15	3.54

ALPS EC10E SERIES: 10MM HOLLOW SHAFT ENCODERS

- Rating: 0.5mA @ 5VDC
- Operating life: 100,000 cycles
- Incremental type
- Applications include controls for PC input devices (e.g., mouse), AV devices, and communication devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Dimensions "H"	Detent Torque	Res.	No. of Detentst	Price Each			
							1	25	50	100
688-EC10E1220505	EC10E1220505	G	7mm	5±3mN·m	12	24	1.12	.96	.80	.47
688-EC10E1220501	EC10E1220501	G	9mm	5±3mN·m	12	24	1.12	.96	.80	.48

ALPS EC11 SERIES: 11MM METAL SHAFT ENCODERS

- Rating: 10mA @ 5VDC
- Operating life: 15,000 cycles
- Incremental type
- High precision
- Applications include controls for MDs and CDs, controls for TVs and monitors, etc.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Push-On Switch	Switch Travel	Res.	No. of Detentst	Price Each			
							1	25	50	100
688-EC11B15202AA	EC11B15202AA	H	Without	---	15	30	1.13	1.09	1.05	1.03
688-EC11E1530401	EC11E1530401	I	Without	---	15	0	4.25	3.64	3.16	2.07
688-EC11E1820402	EC11E1820402	I	Without	---	18	36	4.36	3.74	3.24	2.07
688-EC11B15242AF	EC11B15242AF	J	With	1.5mm	15	30	5.61	4.81	4.17	3.61
688-EC11E15244B2	EC11E15244B2	I	With	1.5mm	15	30	6.90	5.86	5.10	3.17
688-EC11E18244A5	EC11E18244A5	I	With	1.5mm	18	36	5.61	4.81	4.17	2.70
688-EC11E09244AQ	EC11E09244AQ	I	With	1.5mm	18	9	5.61	4.81	4.17	2.72

ALPS EC12E SERIES: 12MM INSULATED SHAFT ENCODERS

- Rating: 0.1A @ 12VDC
- Operating Life: 30,000 cycles
- Incremental type
- High precision
- Applications include level controls for MDs and CDs, controls for TVs and monitors, etc.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Dimensions L (1) mm	Push-On Switch	Res.	No. of Detentst	Price Each			
							1	25	50	100
688-EC12E24204A8	EC12E24204A8	K	15 (7)	Without	24	24	.68	.58	.56	.54
688-EC12E24204A9	EC12E24204A9	K	25 (12)	Without	24	24	.77	.74	.71	.69
688-EC12E24204A2	EC12E24204A2	K	10 (7)	Without	24	24	1.47	1.26	1.09	.57
688-EC12E1220405	EC12E1220405	K	25 (12)	Without	12	12	1.47	1.26	1.09	.57
688-EC12E1220406	EC12E1220406	K	20 (7)	Without	12	12	1.47	1.26	1.09	.66
688-EC12E1220407	EC12E1220407	K	15 (7)	Without	12	12	1.47	1.26	1.09	.66
688-EC12E2420802	EC12E2420802	L	20 (7)	Without	24	24	1.18	1.06	.99	.96
688-EC12E2420801	EC12E2420801	L	25 (12)	Without	24	24	.94	.87	.70	.56

ALPS SRGP HOLLOW SHAFT ENCODERS

- Rating: 10mA @ 5VDC
- Output voltage: 1V max @ 1mA 5VDC
- Operating life: 50,000 cycles
- Applications include automotive navigation systems, audio systems, LCD monitors, general electronic devices

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Rotational Torque	Output Code	Holder	No. of Detents	Price Each			
							1	25	50	100
688-SRGP200200	SRGP200200	M	7±3mN·m	10	----	20	4.36	3.74	3.12	1.83
688-SRGPWJ0500	SRGPWJ0500	N	13±4mN·m	16	----	16	2.72	2.31	2.01	1.89
688-SRGPWJ0200	SRGPWJ0200	N	6.5±4mN·m	16	----	32	2.72	2.31	2.01	1.89

ALPS SRGP30 HOLLOW SHAFT SURFACE MOUNT ENCODER

- Tact switch in the hollow
- Rating: 10mA @ 5VDC
- Output voltage: 1V max @ 1mA 5VDC
- Operating life: 50,000 cycles
- Applications include operation of mobile phones, switching modes for automotive audio systems, operation of cameras, headphones, etc.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Rotational Torque	Output Code	No. of Detents	Price Each			
						1	25	50	100
688-SRGP300100	SRGP300100	O	5±2.5mN·m	9	18	4.36	3.74	3.12	2.80

DIMENSIONS: mm

Technical drawings of various ALPS encoders labeled A through O, showing dimensions in millimeters. Drawing A shows a power switch with encoder with dimensions 40 and 24. Drawing B shows a ring type encoder with dimensions 23, 35, 25, and 2-12. Drawing C shows a low profile ring type encoder with dimensions 2.7, 5.7, 2.75, 4.5, and 7.5. Drawing D shows a 5mm SMD hollow shaft encoder with dimensions 2.7, 5.7, 2.6, 4.5, and 7.5. Drawing E shows another 5mm SMD hollow shaft encoder with dimensions 3.7, 2.5, 5.7, 2.7, and 4.5. Drawing F shows a 9mm metal shaft encoder with dimensions 0.6, 11.5, 10, and 20. Drawing G shows another 9mm metal shaft encoder with dimensions 3.6, 9.8, H, and 4.4. Drawing H shows a 11mm metal shaft encoder with dimensions 5.5, 11.7, 20, 12, 13.75, and 12. Drawing I shows another 11mm metal shaft encoder with dimensions 12, 11.7, 12, 12, 4.5, and 20. Drawing J shows a 12mm insulated shaft encoder with dimensions 6.7, 11.7, 20, 10, 13.75, and 12. Drawing K shows another 12mm insulated shaft encoder with dimensions 13.2, 12.4, 11, L, and 12. Drawing L shows a hollow shaft encoder with dimensions 11, L, 14, and 13.2. Drawing M shows a hollow shaft encoder with dimensions 23.6, 5, 4.5, 11.5, and 11.5. Drawing N shows a hollow shaft surface mount encoder with dimensions 17, 20, 9, 21.9, and 30. Drawing O shows another hollow shaft surface mount encoder with dimensions 17.5, 1.5, 2.3, 12, and 20.

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