










INCREMENTAL ENCODER

SOLID SHAFT AD ALBERO SPORGENTE

| Model Modello | | Dimensions (mm) Dimensioni (mm) | Shaft diameter (mm) Diametro albero (mm) | Max resolution Risoluzione max | Max enclosure rating Grado di protezione max | Max rotation speed Velocità max | Outputs Uscite | Hall phases Fasi di Hall | Power supply Tensione di alimentazione | Operating temperature Temperatura di funzionamento |
|------------------------------|--|------------------------------------|---|-----------------------------------|---|------------------------------------|--|-----------------------------|---|---|
| EL 30 E/H/I |  | ø 30 | ø 4 / ø 6 | 1.024 ppr | IP 54 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | -10° ... +60°C |
| EH 38 A/B/D |  | ø 38 □ 38 □ 44 | ø 6 | 1.024 ppr | IP 54 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | -20° ... +70°C |
| EL 40 A/B/C/E/H/I |  | ø 42 □ 44 | ø 4 / ø 6 | 7.200 ppr | IP 66 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C |
| EH - EL 58 B/C/H/T |  | ø 58 | ø 6 / ø 8 / ø 9,52 / ø 10 / ø 12 | 10.000 ppr | IP 66 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | EH -20° ... +70°C EL -10° ... +60°C |
| EH - EL 63 A/D/E |  | ø 63,5 □ 63,5 | ø 8 / ø 9,52 / ø 10 | 10.000 ppr | IP 66 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | EH -20° ... +70°C EL -10° ... +60°C |
| EL 63 AX* / DX* |  | ø 63,5 □ 63,5 | ø 6 / ø 8 / ø 9,52 / ø 10 | 10.000 ppr | IP 66 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C |
| EL 63 M |  | ø 63,5 | ø 12/M8 | 2.500 ppr | IP 54 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C |
| EH - EL 90 A |  | ø 90 | ø 8 / ø 9,52 / ø 10 | 10.000 ppr | IP 66 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | EH -20° ... +70°C EL -10° ... +60°C |
| EH - EL 115 A/R |  | ø 115 | ø 10 / ø 11 | 10.000 ppr | IP 54 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | EH -20° ... +70°C EL -10° ... +60°C |

BLIND / THROUGH HOLLOW SHAFT AD ALBERO CIECO / PASSANTE

| | | | | | | | | | | |
|--|---|--------|--|------------|-------|------------|--|---|---------------------------------------|--|
| AH 22 E/I |  | ø 20 | ø 2 / ø 3 / ø 4 / ø 5 | 500 ppr | IP 40 | 30.000 rpm | Line driver | - | 5 Vdc | -20° ... +85°C |
| EF 36 K |  | ø 37 | ø 8 / ø 9,52 / ø 10 | 1.024 ppr | IP 40 | 6.000 rpm | Line driver | ✓ | 5 Vdc | -10° ... +85°C |
| EL 38 F/G |  | ø 39,5 | ø 6 / ø 8 / ø 9,52 / ø 10 | 7.200 ppr | IP 54 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C |
| EL 40 G/GR |  | ø 45 | ø 6 / ø 8 / ø 9,52 / ø 10 | 2.000 ppr | IP 54 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C |
| EL 40 M |  | ø 53 | ø 6 | 1.024 ppr | IP 54 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C |
| EF 40 F |  | ø 46 | ø 6 / ø 8 / ø 9,52 / ø 10 / ø 12,7 | 1.024 ppr | IP 66 | 3.000 rpm | Line driver | ✓ | 5 Vdc | -10° ... +85°C |
| AH 48 P |  | ø 48 | ø 8 | 2.500 ppr | IP 40 | 6.000 rpm | Line driver | ✓ | 5 Vdc | -20° ... +85°C |
| EL - EF 49 C/P |  | ø 48,5 | ø 6 / ø 8 / ø 10 / ø 12 / ø 12,7 | 5.000 ppr | IP 40 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | ✓ | 5 Vdc 8 ... 24 Vdc | -10° ... +85°C |
| EL 50 F/G/K/FA/FP/GA/GP |  | ø 50 | ø 6 / ø 8 / ø 9,52 / ø 10 | 5.000 ppr | IP 55 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C |
| EH - EL 53 A/B |  | ø 53,5 | ø 6 / ø 8 / ø 10 | 10.000 ppr | IP 64 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | EH -20° ... +70°C EL -10° ... +60°C |
| EH - EL 58 F/G |  | ø 58 | ø 8 / ø 9,52 / ø 10 / ø 12 / ø 14 / ø 15 | 10.000 ppr | IP 66 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | EH -20° ... +70°C EL -10° ... +60°C |
| EL 58 PFA/PPF/PGA/PGP |  | ø 58 | ø 8 / ø 9,52 / ø 10 / ø 12 / ø 14 / ø 15 | 2.500 ppr | IP 66 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -20° ... +70°C |
| EH - EL 63 F/G/P/PB/GB/FB/PC/PBF/PCF |  | ø 63,5 | ø 8 / ø 9,52 / ø 10 / ø 12 / ø 14 / ø 15 | 10.000 ppr | IP 66 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | EH -20° ... +70°C EL -10° ... +60°C |
| EL 63 GBM/FBM |  | ø 63,5 | ø 8 / ø 10 / ø 12 / ø 14 / ø 15 | 2.048 ppr | IP 65 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -20° ... +70°C |
| EH - EL 72 A/B |  | ø 72 | ø 6 / ø 8 / ø 10 | 10.000 ppr | IP 66 | 6.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | EH -20° ... +70°C EL -10° ... +60°C |
| EH - EF 80 C/P/K |  | ø 80 | ø 8 / ø 10 / ø 14 / ø 15 | 2.048 ppr | IP 54 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | ✓ | 5 Vdc 8 ... 24 Vdc | -10° ... +85°C |

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|------------------------------------|---|------------------------------------|--|-----------------------------------|---|------------------------------------|---|-----------------------------|---|---|--|
| EH 80 PFP |  | ø 80 | ø 30 / ø 35 / ø 40 / ø 43,97 | 1.440 ppr | IP 54 | 3.000 rpm | Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc | -20° ... +85°C | AD ALBERO CIECO / PASSANTE BLIND / THROUGH HOLLOW SHAFT |
| EH 88 PE |  | ø 88 | ø 25 / ø 30 / ø 35 / ø 38 / ø 40 / K25 / K30 / K35 | 1.024 ppr | IP 54 | 3.000 rpm | Npn / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -30° ... +85°C | |
| EL 88 P |  | ø 88 | ø 25 / ø 30 / ø 35 / ø 38 | 2.048 ppr | IP 54 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C | |
| EH - EL 99 PT / PF |  | ø 99 | ø 12 / ø 16 / T17 | 3.072 ppr | IP 67 | 3.000 rpm | Push pull / Line driver | - | 5 Vdc 8 ... 30 Vdc | -40° ... +85°C | |
| EL 120 P |  | ø 120 | ø 40 / ø 50 / ø 60 | 2.048 ppr | IP 54 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C | |
| EMI 22 A / AY* |  | ø 22 | ø 6 / ø 8 / ø 9,52 / ø 10 | 2.048 ppr | IP 68 | 10.000 rpm | Push pull / Line driver | - | 5 Vdc | -40° ... +125°C | MAGNETICI MAGNETIC |
| EMI 38 A |  | ø 39,5 | ø 6 / ø 8 / ø 9,52 / ø 10 | 2.048 ppr | IP 64 | 6.000 rpm | Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | -25° ... +100°C | |
| EMI 40 A |  | ø 42 | ø 4 / ø 6 | 2.048 ppr | IP 65 | 6.000 rpm | Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | -25° ... +100°C | |
| EMI 55 A / AY* |  | ø 55 | ø 6 / ø 8 / ø 9,52 / ø 10 | 2.048 ppr | IP 68 | 10.000 rpm | Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -25° ... +100°C | |
| EMI 58 RY* |  | ø 58 | K12 | 2.048 ppr | IP 66 | 3.000 rpm | Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -25° ... +100°C | |
| EMI 63 A / D |  | ø 63,5 □ 63,5 | ø 6 / ø 8 / ø 9,52 / ø 10 | 2.048 ppr | IP 66 | 6.000 rpm | Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -25° ... +100°C | |
| EMI 63 AX* / DX* |  | ø 63,5 □ 63,5 | ø 6 / ø 8 / ø 9,52 / ø 10 | 2.048 ppr | IP 66 | 6.000 rpm | Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -25° ... +100°C | |
| ER A / B / C / D / E / F |  | - | ø 6 | 0,01 mm | IP 64 | 1 m/s | Npn / Npn open collector / Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | -10° ... +60°C | |
| ETM A |  | - | - | 0,01 mm | IP 67 | 4 m/s | Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | -10° ... +60°C | |
| EX 80 A / D / AX* / DX* |  | ø 80 □ 80 | ø 6 / ø 8 / ø 10 | 10.000 ppr | IP 65 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | 0° ... +50°C | ALTRI PRODOTTI OTHER PRODUCTS |
| EC 34 A |  | - | ø 10 | 2.000 ppr | IP 64 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | -10° ... +60°C | |
| RH 200 A / B / C |  | - | ø 8 | 1.024 ppr | IP 66 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C | |
| RH / RM 500 A / B / C |  | - | ø 10 | 10.000 ppr | IP 66 | 3.000 rpm | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C | |
| EV A / B / C |  | - | ø 6 / ø 10 | 10.000 ppr | IP 64 | - | Npn / Npn open collector / Push pull / Line driver | - | 5 ... 28 Vdc 5 Vdc 8 ... 24 Vdc | -10° ... +60°C | |
| ETM R |  | - | ø 9 / ø 9,52 / ø 10 / ø 11 / ø 14 / ø 19 / ø 21 / ø 24 / ø 28 / ø 35 | 4.096 ppr | IP 67 | 8.000 rpm | Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | -20° ... +85°C | |
| EMB |  | - | - | - | - | - | Npn / Npn open collector / Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | 0° ... +50°C | SCHEDE DI INTERFACCIA CONDITIONING BOARDS |
| EMD |  | - | - | - | - | - | Npn / Push pull / Line driver | - | 5 Vdc 8 ... 24 Vdc | 0° ... +40°C | |

*
X = stainless steel / inox
Y = anodized / anodizzato

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