

Automatic Timing Proximity Sensors - Models 300/301

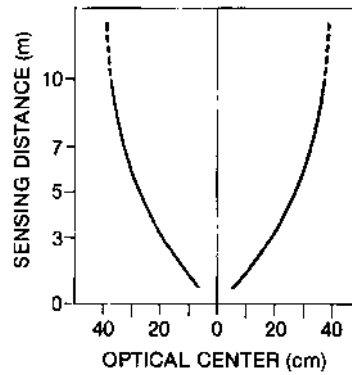
Sords Electric - 800-929-2845



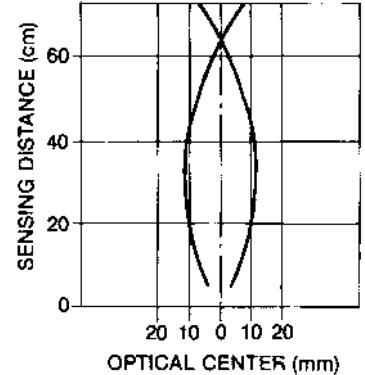
40mm RECTANGULAR
80mm SQUARE

Inductive Proximity Sensor

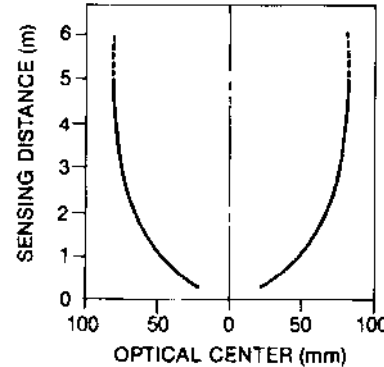
7231A



7232A



7233A



| | | | | |
|--------------------------|----|----|--|--|
| MODEL NUMBER >>>>>> | 30 | 3 | | |
| Type | | | | |
| Shielded | 0 | | | |
| Non-Shielded | 1 | | | |
| Housing | | | | |
| 40mm Rectangular Plastic | | 42 | | |
| 80mm Square Plastic | | 82 | | |
| Termination | | | | |
| Terminal Block | | 20 | | |
| K Connector | | 30 | | |
| Output | | | | |
| AC, 2 Wire, NO or NC | | 13 | | |
| DC, 4 Wire, NPN, NO & NC | | 23 | | |
| DC, 4 Wire, PNP, NO & NC | | 26 | | |
| DC, 2 Wire, NO | | 27 | | |
| DC, 2 Wire, NC | | 28 | | |

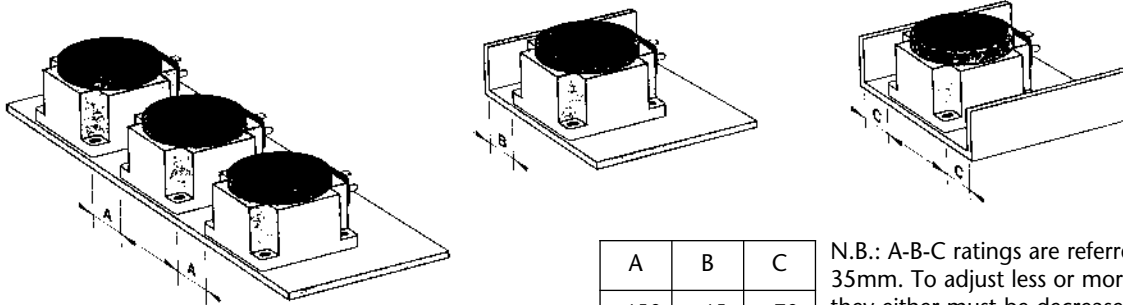
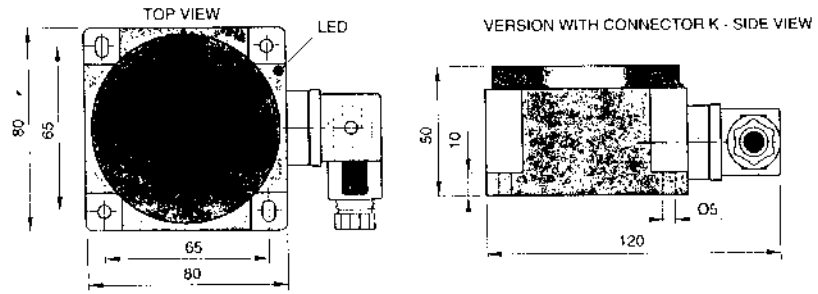
SPECIFICATIONS

| | |
|-----------------------------|---|
| SWITCHING POINT HYSTERESIS | <10% of max. switching distance. See Chart. Ring Sensors. |
| SHORT CIRCUIT PROTECTION | Yes, all DC Models |
| REVERSE POLARITY PROTECTION | Yes, all DC Models |
| LED INDICATOR | Yes |
| OPERATING TEMPERATURE | -25° to 70°C |
| DEGREE OF PROTECTION | NEMA 1, 4, 12, 13 (IP65) - Ring |
| HOUSING | Plastic |

| SIZE | 40mm Rectangular | | | | | | 80mm Square | | | | |
|---------------------------------------|------------------|--|---------------------------|----|------------------------------|----|---------------------------|----|---------------------------|------------------------------|---------------------------|
| | TYPE | | 2 wire DC | | 4 wire DC | | 2 wire AC | | 2 wire DC | 4 wire DC | 2 wire AC |
| SHIELDING | N - Non-Shielded | | S | N | S | N | S | N | N | N | N |
| | S - Shielded | | | | | | | | | | |
| MAXIMUM SENSING DISTANCE (SN)mm | | | 10 | 20 | 15 | 20 | 15 | 20 | 50 | 50 | 50 |
| SUPPLY VOLTAGE (RESIDUAL RIPPLE <10%) | | | 10-30 VDC | | 10-55 VDC | | 20-250 VAC | | 10-30 VDC | 10-55 VDC | 20-250 VAC |
| MAXIMUM OUTPUT CURRENT mA | | | 100 | | 200 | | 300 | | 100 | 200 | 300 |
| NO LOAD CURRENT AT 24 VDC mA | | | — | | <10 | | — | | — | <10 | — |
| LEAKAGE CURRENT mA | | | <0.6 | | — | | <2.5 | | <0.6 | — | <2.5 |
| VOLTAGE DROP (ON STATE) | | | <7 VDC | | <1.8 VDC | | <6 VAC | | <7 VDC | <1.8 VDC | <6 VAC |
| OUTPUTS | | | N.O. or N.C. Programmable | | PNP-N.O.-N.C. NPN-N.O.& N.C. | | N.O. or N.C. Programmable | | N.O. or N.C. Programmable | PNP-N.O.-N.C. NPN-N.O.& N.C. | N.O. or N.C. Programmable |
| SWITCHING FREQUENCY | | | 300 | | 300 | | 12 | | 50 | 50 | 12 |
| REPEATABILITY mm | | | <0.3 | | | | | | <0.5 | | |
| MINIMUM OUTPUT CURRENT | | | <1.5 | | — | | <5 | | <1.5 | — | 5 |
| MAX. PEAK CURRENT FOR 20ms | | | — | | — | | 1.5 | | — | — | 1.5 |
| STANDARD TERMINATION | | | Terminal Block | | | | | | Terminal Block | | |

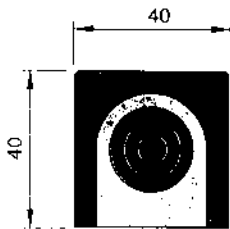
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DIMENSIONS (MILLIMETERS)

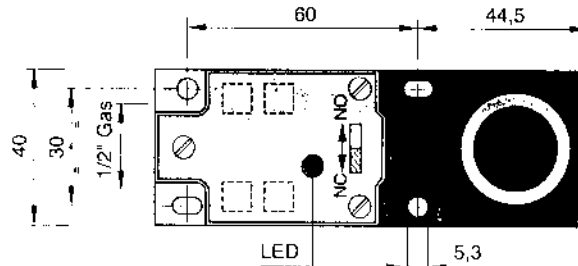


| | | |
|------|-----|-----|
| A | B | C |
| >450 | >45 | >70 |

N.B.: A-B-C ratings are referred to $S_n = 35\text{mm}$. To adjust less or more sensitivity they either must be decreased or increased.

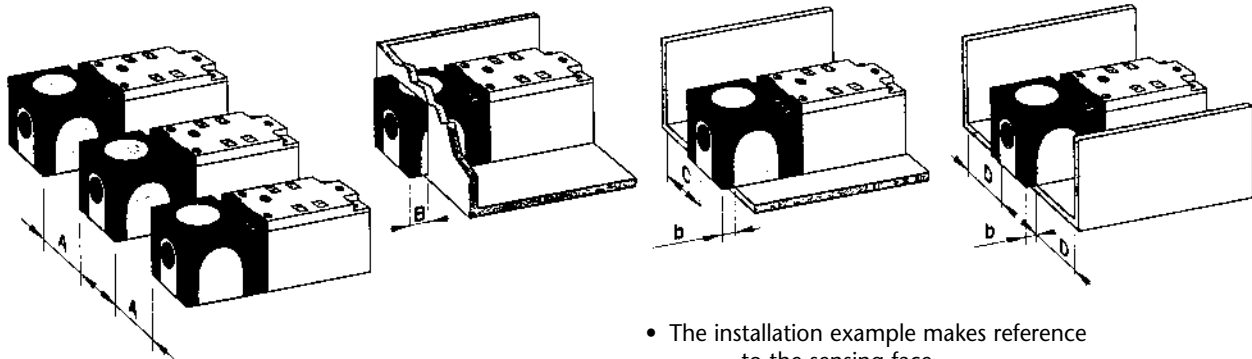


Frontal view



Version with terminal block - top view

300-3-4220-XX



- The installation example makes reference to the sensing face.

| DIMENSIONS mm | A | B | b | C | D |
|---------------|-----|-----|-----|-----|-----|
| SHIELDED | >30 | >6 | >0 | >0 | >0 |
| NON-SHIELDED | >40 | >40 | >15 | >10 | >15 |

Proximity Sensors // 300/301 Series