## Air Cylinder Short Type Standard: Double Acting, Single Rod

CG3 Series



CJ<sub>1</sub>

C.IP CJ<sub>2</sub>

JCM

CM<sub>2</sub>

CM3

CG<sub>1</sub>

CG3

**JMB** 

MB

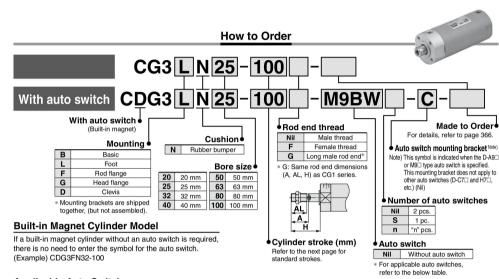
MB<sub>1</sub>

CA<sub>2</sub>

CS<sub>1</sub>

CS<sub>2</sub>

Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



Applicable Auto Switches/Refer to pages 1575 to 1701 in Best Pneumatics No. 2 for further information on auto switches.

| Туре                    | Special function                                   | Electrical<br>entry | Indicator light | Wiring                  | Load voltage |                                |               | Auto switch model Applicable bore size |         |           |       | Lead wire length (m) |     |     |     | Pre-wired  |                 |        |  |
|-------------------------|--|---------------------|-----------------|-------------------------|--------------|--------------------------------|---------------|--|---------|-----------|-------|----------------------|-----|-----|-----|------------|-----------------|--------|--|
|                         |  |                     |                 | (Output)                |              |                                | AC            | ø20 to ø63                             |         | ø80, ø100 | 0.5 1 |                      | 3   | 5   |     |            | Applicable load |        |  |
|                         |  |                     |                 | , , ,                   |              | C                              |               | Perpendicular                          | In-line | In-line   | (Nil) | (M)                  | (Ľ) | (Ž) | (N) |            |                 |        |  |
| Solid state auto switch |  | Grommet             |                 | 3-wire (NPN)            |              | 5 V, 12 V                      | _             | M9NV                                   | M9N     | _         | •     | •                    | •   | 0   | -   | 0          |                 | Relay, |  |
|                         |  |                     |                 | 3-wire (INPIN)          |              |                                |               | _                                      |         | G59       | •     | 1-                   | •   | 0   | -   | 0          | IC              |        |  |
|                         |  |                     |                 | 3-wire (PNP)            |              |                                |               | M9PV                                   | M9P     | _         | •     | •                    | •   | 0   | _   | 0          | circuit         |        |  |
|                         |  |                     |                 | 3-WIE (FINE)            |              |                                |               | _                                      | _       | G5P       | •     | -                    | •   | 0   | _   | 0          |                 |        |  |
|                         |  |                     |                 |                         |              | 12 V                           |               | M9BV                                   | M9B     | _         | •     | •                    | •   | 0   | -   | 0          |                 |        |  |
|                         |  |                     |                 | 2-wire                  |              |                                |               | _                                      | _       | K59       |       | -                    | •   | 0   | _   | 0          |                 |        |  |
|                         |  | Connector           |                 |                         |              |                                |               | _                                      | H7C     | _         | •     | -                    | •   | •   | •   | _          |                 |        |  |
|                         | Diagnostic<br>indication<br>(2-color<br>indicator) | Grommet             | Yes             | 3-wire (NPN)            | 24 V         | 5 V, 12 V<br>12 V<br>5 V, 12 V |               | M9NWV                                  | M9NW    | _         |       | •                    | •   | 0   | _   | 0          |                 |        |  |
|                         |  |                     |                 | 3-MILE (IALIA)          |              |                                |               | _                                      | _       | G59W      | •     | -                    | •   | 0   | -   | O IC circu |                 |        |  |
|                         |  |                     |                 | 3-wire (PNP)            |              |                                |               | M9PWV                                  | M9PW    | _         |       | •                    | •   | 0   | _   |            | circuit         |        |  |
|                         |  |                     |                 | 3-WIE (FINE)            |              |                                |               | _                                      | _       | G5PW      | •     | -                    | •   | 0   | -   | 0          |                 |        |  |
|                         |  |                     |                 | 2-wire                  |              |                                |               | M9BWV                                  | M9BW    | _         |       | •                    | •   | 0   | _   | 0 _        |                 |        |  |
|                         |  |                     |                 |                         |              |                                |               | _                                      | _       | K59W      | •     | -                    | •   | 0   | -   | 0          | _               |        |  |
|                         | Water resistant<br>(2-color indicator)             |                     |                 | 3-wire (NPN)            |              |                                |               |  | M9NAV*1 | M9NA*1    | _     | 0                    | 0   | •   | 0   | _          | 0               | IC     |  |
|                         |  |                     |                 | 3-wire (PNP)            |              |                                |               | M9PAV*1                                | M9PA*1  | _         | 0     | 0                    | •   | 0   | -   | 0          | circuit         | 1      |  |
|                         |  |                     |                 | 2-wire                  |              | 12 V<br>5 V, 12 V              |               | M9BAV*1                                | M9BA*1  | _         | 0     | 0                    | •   | 0   | _   | 0          | IC circuit      |        |  |
|                         |  |                     |                 |                         |              |                                |               | _                                      | _       | G5BA*1    | -     | -                    | •   | 0   | _   | 0          |                 |        |  |
|                         | With diagnostic output (2-color indicator)         |                     |                 | 4-wire (NPN)            |              |                                |               | _                                      | H7NF    | G59F      |       | -                    | •   | 0   | _   | 0          |                 |        |  |
| Reed auto switch        |  | Grommet             | ラ               | 3-wire (NPN equivalent) | _            | 5 V                            | _             | A96V                                   | A96     | _         |       | -                    | •   | _   | _   | _          | IC circuit      | _      |  |
|                         |  |                     |                 |                         | 24 V         |                                | 100 V         | A93V*2                                 | A93     | _         | •     | •                    | •   | •   | _   |            | _               |        |  |
|                         |  |                     |                 |                         |              |                                | 100 V or less | A90V                                   | A90     | _         | •     | -                    | •   | _   | _   | _          | IC circuit      | ]      |  |
|                         |  |                     |                 | 2-wire                  |              |                                | 100 V, 200 V  | _                                      | B54     |           | •     | -                    | •   | •   | _   | _          |                 | Relay, |  |
|                         |  |                     |                 |                         |              |                                | 200 V or less | _                                      |         | 64        | •     |                      | •   | _   | _   | Ī          | —               | PLC    |  |
|                         |  | Connector           |                 |                         |              |                                | _             | _                                      | C73C    | _         | •     |                      | •   | •   | •   |            |                 |        |  |
|                         |  |                     |                 |                         |              |                                | 24 V or less  | _                                      | C80C    | _         | •     |                      | •   | •   |     |            | IC circuit      |        |  |
| Œ                       | Diagnostic indication (2-color indicator)          | Grommet 3           |                 |                         |              | _                              | _             | _                                      | B59W    |           | •     | 1-                   | •   | _   | -   | _          | _               |        |  |

\*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot quarantee water resistance.

A water resistant type cylinder is recommended for use in an environment which requires water resistance. However, please contact SMC for water-resistant products of ø20 and ø25. \*2 1 m type lead wire is only applicable to D-A93.

- \* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW
- \* Solid state auto switches marked with "O" are produced upon receipt of order.
- 3 m ..... L (Example) M9NWL
- 5 m ..... Z (Example) M9NWZ None ······ N (Example) H7CN
- \* The D-G5□/K5□/B5□/B6□ types cannot be mounted on the bore size ø40.
- 1 m ..... M (Example) M9NWM
- \* Since there are other applicable auto switches than listed above, refer to page 376 for details.
- \* For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.
- \* The D-A9\(\times(\)/M9\(\)/M9\(\)/M9\(\)/M9\(\)/M9\(\)/(\) type auto switches are shipped together, (but not assembled). (However, auto switch mounting brackets are assembled when being shipped.)



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-X□ Technical