Positioners SIPART PS2

Selection and Ordering data SIPART PS2

| Selection and ordering data | | Article No. Order code |
|---|---------------|----------------------------|
| SIPART PS2 electropneumatic positioner, in flameproof alumi- num enclosure, without cable gland | | 6 DR 5 |
| Version 2-wire (4 to 20 mA) • Without HART • With HART 2-, 3-, 4-wire (0/4 to 20 mA) • With HART • With HART • Without HART PROFIBUS PA connection FOUNDATION Fieldbus connection | > | 0 1 2 3 5 6 |
| For actuator Single-acting Double-acting | ► • | |
| Connection thread electrical/pneumatic M20 x 1.5 / G¼ ½-14 NPT / ¼-18 NPT M20 x 1.5 / ¼-18 NPT ½-14 NPT / G¼ M25x1.5 / G¼ | > 0 > 0 | G N M P Q |
| Limit monitor Built-in Without Alarm module; electronic (6DR4004-8A) | > • | 0 1 |
| Option modules Built-in Without ly module for position feedback signal (4 20 mA) (6DR4004-8J) EMC filter module for external position sensor ly module and EMC filter module for external position sensor | > | 0 1 2 3 |
| Customer-specific design Without | > | 0 |
| Brief instructions German/English French/Spanish/Italian Available ex stock | > • | |

- Available ex stock
- We can offer shorter delivery times for configurations designated with the Quick Ship Symbol . For details see page 9/5 in the appendix.

| Selection and ordering data | Article No. Ord | er code |
|--|-----------------|---------|
| SIPART PS2 electropneumatic positioner, in flameproof alumi- | 6 D R 5 | |
| num enclosure, without cable gland | 5 - 0 E A | |
| Mounted pressure gauge block Without | (| |
| Gauge made of plastic, block made of aluminium, single-acting G1/4, scaled in MPa and bar | 1 | |
| Gauge made of plastic, block made of aluminium, double-acting G¼, scaled in MPa and bar | 2 | |
| Gauge made of plastic, block made of aluminium, single-acting 1/4-18 NPT, scaled in MPa and psi | 3 | |
| Gauge made of plastic, block made of aluminium, double-acting 1/4-18 NPT, scaled in MPa and psi | • | |
| Gauge made of steel block made of aluminium, single- acting G1/4, scaled in MPa, bar, psi | 9 | R1A |
| Block made of aluminium, double- acting G ¹ / ₄ , scaled in MPa, bar, psi Block made of aluminium, single- | 9 | |
| acting 1/4-18 NPT, scaled in MPa, bar, psi Block made of aluminium, double- | 9 | |
| acting 1/4-18 NPT, scaled in MPa, bar, psi | | |
| Gauge made of stainless steel 316 Block made of stainless steel 316, single-acting G¼, scaled in MPa, bar, psi | ę | R1C |
| Block made of stainless steel 316, double-acting G¼, scaled in MPa, bar, psi | Ę | R2C |
| Block made of stainless steel 316, single-acting 1/4-18 NPT, scaled in MPa, bar, psi | 9 | R1D |
| Block made of stainless steel 316, double-acting ½-18 NPT, scaled in MPa, bar, psi | Ş | R2D |
| Further designs | Order code | |
| Add "-Z" to Article No. and specify Order Code. | | |
| TAG plate made of stainless steel, | A20 | |
| 3-line Text line 1: Plain text from Y17 Text line 2: Plain text from Y15 Text line 3: Plain text from Y16 | | |
| Functional safety (SIL 2) only for 6DR5.1. (single-action positioners) | C20 | |
| Device suitable for use according to IEC 61508 and IEC 61511 | | |
| Measuring point description Max. 16 characters for HART, max. 32 characters for PROFIBUS | Y15 | |
| PA and FOUNDATION Fieldbus, specify in plain text: Y15: | | |
| Measuring point text Max. 24 characters for HART, max. 32 characters for PROFIBUS | Y16 | |
| PA and FOUNDATION Fieldbus, specify in plain text: Y16: | V47 | |
| Measuring point number (TAG No.) Max. 8 characters for HART, max. 32 characters for PROFIBUS PA and FOUNDATION Fieldbus, specify in plain text: Y17: | Y17 | |
| Preset bus address Specify in plain text: Y25: only for 6DR55 and 6DR56) | Y25 | |

► Available ex stock (select combinations)

Positioners SIPART PS2

Selection and Ordering data Accessories/Spare parts

| Selection and ordering data | | Article No. |
|---|-----------------------|---------------|
| Accessories | | |
| ly module for position feedback signal (4 20 mA) | | |
| Without explosion protection | \blacktriangleright | 6DR4004-8J |
| With explosion protection ATEX/IECEx | \blacktriangleright | 6DR4004-6J |
| With explosion protection FM/CSA | | 6DR4004-7J |
| Alarm unit for 3 alarm outputs and 1 binary input (functionality: 2 limit monitors, 1 fault alarm, 1 binary input) | | |
| Without explosion protection | \blacktriangleright | 6DR4004-8A |
| With explosion protection ATEX/IECEx | > | 6DR4004-6A |
| With explosion protection FM/CSA | | 6DR4004-7A |
| SIA module (slot-type initiator alarm unit, not for Ex d version) | | |
| Without explosion protection | \blacktriangleright | 6DR4004-8G |
| With ATEX/IECEx and FM/CSA explosion protection | • | 6DR4004-6G |
| Mechanical limit switch module (with mechanical ground contacts, not for Ex d version) | | |
| Without explosion protection | > | 6DR4004-8K |
| With explosion protection | > | 6DR4004-6K |
| EMC filter module for connection of external position sensor (10 $k\Omega$) or NCS sensor | • | C73451-A430-I |
| | | |

| Selection and ordering data | and ordering data Article No. | |
|--|-------------------------------|--|
| Accessories | | |
| NCS sensor for non-contacting detection of position (not for Ex d version) | 6 DR 4 0 0 4 - N 0 | |
| Explosion protection Not explosion-proof With protection type (ATEX/IECEx/FM) Intrinsic safety Non-sparking | 8 6 | |
| Cable length 6 m (19.68 ft) 20 m (65.67 ft) 40 m (131,23 ft) | N P R | |
| Actuator type For part-turn actuators, glass fiber-reinforced polyester magnet holders ¹⁾ For linear actuators up to 14 mm (0.55 inch) ²⁾ For linear actuators, > 14 130 mm (0.55 5.12 inch) ³⁾ For part-turn actuators, anodized aluminum | 1 2 3 | |
| magnet holders | | |

► Available ex stock.

- Fitted with mounting console, available for order separately as accessory.
 Mounted without NAMUR interface, individual mounting solution. Or mounted with NAMUR interface. Only a NAMUR mounting bracket can be used as mounting base (order separately as accessory).
- used as mounting base (order separately as accessory).

 3) Mounted with NAMUR interface. Article No. either 6DR4004-8V or 6DR4004-8V + 6DR4004-8L depending on stroke range.

 Or mounted without NAMUR interface, individual mounting solution. Article No. 6DR4004-8VK or 6DR4004-8VL can be used as individual mounting solution depending on the stroke range.

| Selection and ordering data | | Article No. |
|---|-------------|-----------------|
| External position detection system (with explosion protection to ATEX/IECEx) for separate mounting of position sensor and controller unit (not for Ex d version), comprising SIPART PS2 Makrolon enclosure with integral potentiometer and sliding clutch (without electronics and valve block) | • | C73451-A430-D78 |
| The EMC filter module is additionally required for the controller unit. (separate ordering item, see above). | | |
| Gauge block with | | |
| 2 gauges made of plastic, block made of aluminium, single-acting $G^{\prime\!\!/}_{\!\!4},$ scaled in MPa and bar | • | 6DR4004-1M |
| 3 gauges made of plastic, block made of aluminium, double-acting G¼, scaled in MPa and bar | • | 6DR4004-2M |
| 2 gauges made of plastic, block made of aluminium, single-acting 1/4-18 NPT, scaled in MPa and psi | > | 6DR4004-1MN |
| 3 gauges made of plastic, block made of aluminium, double-acting 1/4-18 NPT, scaled in MPa and psi | • | 6DR4004-2MN |
| 2 gauges made of steel Block made of aluminum, single-acting G ¹ / ₄ , scaled in MPa, bar, psi | > | 6DR4004-1P |
| 3 gauges made of steel Block made of aluminum, double-acting G ¹ / ₄ , scaled in Mpa, bar, psi | > | 6DR4004-2P |
| 2 gauges made of steel Block made of aluminum, single-acting 1/4-18 NPT, scaled in MPa, bar, psi | > | 6DR4004-1PN |
| 3 gauge and of steel Block made of aluminum, double-acting 1/4-18 NPT, scaled in MPa, bar, psi | • | 6DR4004-2PN |
| 2 gauges made of stainless steel 316 Block made of stainless steel 316, single-acting G¼, scaled in MPa, bar, psi | • | 6DR4004-1Q |
| 3 gauges made of stainless steel 316 Block made of stainless steel 316, double-acting G ¹ / ₄ , scaled in MPa, bar, psi | • | 6DR4004-2Q |
| 2 gauges made of stainless steel 316 Block made of stainless steel 316, single-acting 1/4-18 NPT, scaled in MPa, bar, psi | • | 6DR4004-1QN |
| 3 gauges made of stainless steel 316 Block made of stainless steel 316, double-acting 1/4-18 NPT, scaled in MP, bar, psi | • | 6DR4004-2QN |
| Pneumatic terminal block made of | | |
| stainless steel 316 to replace the pneumatic terminal block made of aluminium for SIPART PS2 with Makrolon enclosure | | |
| Single-acting with G1/4 | | 6DR4004-1R |
| Double-acting with G1/4 | > | 6DR4004-2R |
| Single-acting with 1/4-18 NPT | | 6DR4004-1RN |
| Double-acting with 1/4-18 NPT | • | 6DR4004-2RN |
| Mounting kit for NAMUR part-turn actuators | | |
| (VDI/VDE 3845, with plastic coupling wheel, without mounting console) | > | 6DR4004-8D |
| (VDI/VDE 3845, with stainless steel coupling, without mounting console) | > | TGX:16300-1556 |
| The following mounting consoles can be used with the NAMUR part-turn actuator mounting kit 6DR4004-8D. | | |
| Size W x L x H (H = height of shaft butt) • 30 x 80 x 20 mm | • | TGX:16152-105 |
| - 00 A 00 A 20 IIIIII | | TGA.10132-103 |

• 30 x 80 x 30 mm • 30 x 130 x 30 mm

• 30 x 130 x 50 mm

TGX:16300-147

TGX:16300-149

TGX:16300-151

Positioners SIPART PS2

Selection and Ordering data Accessories/Spare parts

| Mounting kit for other part-turn actuators | | |
|---|--------------------------|--|
| The following mounting consoles can be used together with the NAMUR part-turn actuator mounting kit 6DR4004-8D. | | |
| • SPX (DEZURIK) Power Rac, sizes R1, R1A, R2 ▶ and R2A | TGX:16152-328 | |
| Masoneilan Camflex II | TGX:16152-350 | |
| • Fisher 1051/1052/1061, sizes 30, 40, 60 to 70 | TGX:16152-364 | |
| • Fisher 1051/1052, size 33 | TGX:16152-348 | |
| Mounting kit for NAMUR linear actuators | | |
| • NAMUR linear actuator mounting kit with short lever (2 35 mm (0.08 1.38 inch) | 6DR4004-8V | |
| • Long lever for travels from 35 130 mm (1.38 5.12 inch) | 6DR4004-8L | |
| Reduced mounting kit (like 6DR4004-8V but without fixing angle and U-bracket), with short lever with up to 35 mm travel (1.38 inch) | 6DR4004-8VK | |
| Reduced mounting kit (like 6DR4004-8V but without fixing angle and U-bracket), with long lever with > 35 mm travel (1.38 inch) | 6DR4004-8VL | |
| Roll and disk made of stainless steel 316 for replacement of the Teflon roll and aluminum disk in the 6DR4004-8, -8VK and -8VL mounting kits for NAMUR linear actuators | 6DR4004-3N | |
| Two terminal blocks made of stainless steel 316 ► for replacement of the aluminum terminal blocks in the 6DR4004-8V, -8VK and -8VL mounting kits for NAMUR linear actuators | 6DR4004-3M | |
| Mounting kit for other linear actuators | | |
| Retrofitting kit for Moore series 72 and 750 valve positioners | TGX:16152-117 | |
| Masoneilan type 87/88 | TGX:16152-620 | |
| • Fisher type 657/667, size 30 to 80 | TGX:16152-110 | |
| • Samson actuator type 3277 (yoke dimension (H5) = 101 mm ² (integrated connection without tube), not for Ex d | 6DR4004-8S | |
| OPOS Interface according to VDI/VDE 3847 | | |
| OPOS adapter with interface VDI/VDE 3847, blanketing, not for flameproof aluminum enclosure | 6DR4004-5PA | |
| OPOS/NAMUR mounting kit with short lever (complete), base plate, rail, mounting parts | 6DR4004-5PL | |
| Connection block , for safety solenoid valve with extended mounting flange to NAMUR | | |
| • For mounting to IEC 534-6 | 6DR4004-1B | |
| • For SAMSON actuator (integrated mounting) see above | 6DR4004-1C ¹⁾ | |
| Pipe mounting | | |
| Mounting bracket for pipe mounting of the SIPART PS2 positioner (e. g. when using the NCS sensor) | TGX:16152-336 | |
| Additional actuator components can be found at the following Internet address: www.siemens.de/sipartps2 Customer-specific mounting kits available on | | |
| request. | | |

| Documentation (see notes below) | |
|---|---------------|
| Operating Instructions | |
| SIPART PS2 HART German | A5E00074630 |
| SIPART PS2 HART English | A5E00074631 |
| SIPART PS2 PROFIBUS PA German | A5E00127924 |
| SIPART PS2 PROFIBUS PA English | A5E00127926 |
| SIPART PS2 FOUNDATION Fieldbus German | A5E00214568 |
| SIPART PS2 FOUNDATION Fieldbus English | A5E00214569 |
| SIPART PS2 Compact Instruction Manual | |
| English, French, German, Spanish, Italian, Dutch | A5E03436620 |
| English, Estonian, Latvian, Lithuanian, Polish, Romanian | A5E03436655 |
| English, Bulgarian, Czech, Finnish, Slovakian, Slovenian | A5E03436664 |
| English, Danish, Greek, Portuguese, Swedish, Hungarian | A5E03436683 |
| Operating Instructions for NCS Sensor | |
| German/English/French/Spanish/Italian | A5E00097485 |
| SIPART PS2 device documentation | |
| DVD with complete documentation for all device versions | A5E00214567 |
| SITRANS I200 output isolator HART (see SITRANS I supply units and isolation ampli- fiers") with | |
| • 24 V DC power supply | 7NG4131-0AA00 |
| HART modem for connecting to PC or laptop | |
| • with RS232 interface | 7MF4997-1DA |
| with USB interface | 7MF4997-1DB |

Available ex stock.

Note:

All the above-mentioned manuals are included on DVD and can be downloaded from www.siemens.de/sipartps2.

Scope of delivery for positioner

- 1 SIPART PS2 positioner as ordered
- 1 DVD with the complete documentation for all versions and accessories
- Short manual "SIPART PS2 Configuration At a Glance"

| Selection and ordering data | Article No. |
|--|-------------|
| ICS-Sensor spare parts | |
| Magnet holder made of fiberglass-reinforced polyester including magnet for non-contacting position detection for part-turn actuators | A5E00078030 |
| Magnet holder made of anodized aluminum ncluding magnet for non-contacting position letection for part-turn actuators | A5E00524070 |

 $^{^{\}rm 1)}$ Only together with 6DR4004-8S and 6DR4004-1M.