



Electrical position feedback for actuator sizes Ø 40-125 mm

- Simple installation, convertible or retrofittable
- Self-adjusting trip cam for “closed” position
- LEDs provide local operational status and position indication
- Compact IP65 enclosure
- Mechanical, inductive or Namur limit switches

Type 1062 can be combined with...



Type 2000

Angle-seat valve



Type 2030

Plastic
diaphragm valve



Type 2031

Diaphragm valve



Type 2012

Globe valve

The electrical position feedback is to be installed on a valve. Valve positions are remotely reported electrically according to switch type:

- open, closed (version with a limit switch) or
- open and closed (version with two switches or a double limit switch)

LEDs provide optical position indication (except with the inductive 2-wires version). Mechanical or inductive switches are housed in a compact splash-proof enclosure. The position indicator can be rotated 360° and is easily fitted to the valve.

Technical data

Material	
Body / cover	PA6/PC
Seal (body/cover)	EPDM
Cable gland	PA or PVDF
Guide piece	Brass or stainless steel
Spindle	Brass and stainless steel
Electrical connection	Terminal strip with cable screwing M16x1.5, cable-Ø between 5 and 7 mm, wire profile max. 1 mm ²
Ambient temperature	-20 to +60 °C (operation and storage)
Relative humidity	≤ 85%, not condensed
Protection class	IP65 with mounted and tightened connectors and tightly fixed electronic module cover
Approval	Limit switches acc. to VDE, IEC, UL, CSA, inductive limit switch in EExi (intrinsically safe) acc. to II 2 GD EEx ia II C T6, T5 or T4-T1
Mounting	on piston actuator with actuator size Ø 40-125 mm
Installation	As required

Mechanical limit switch (per limit switch)

Number of limit switches	1 or 2
Output version	Change-over contact (open and /or closed) in silver or gold
Status	Open, closed or open/closed, supply voltage Control lamp (LED) : green, red, orange and electrical feedback
Power supply	12-48 V DC/AC 110/250 V DC/AC
Power consumption (per limit switch)	< 35 mA (48 V DC) < 8 mA (220 V AC)
Load current (per limit switch)	see table on next page
Voltage drop	Max. 1 V DC

Inductive limit switch with 3-wire technology	
Number of limit switches	1 or 2
Output version	normally open contact (PNP)
Status	Open, closed or open/closed, supply voltage Control lamp (LED): green, red, orange and electrical feedback
Power supply	10-30 V DC
Power consumption (per limit switch)	≤ 15 mA
Load current (per limit switch)	≤ 150 mA, per output

Inductive double limit switch with 4-wire technology	
Number of limit switches	1
Output version	normally open contact (PNP)
Status	Open and closed, supply voltage Control lamp (LED): green, red, orange and electrical feedback
Power supply	10-30 V DC
Power consumption	≤ 15 mA
Load current	≤ 150 mA, per output

NAMUR inductive double limit switch with 2-wire technology	
Number of limit switches	1
Output version	acc. to NAMUR
Status	Open and closed Control lamp (LED): red, orange and electrical feedback
Power supply	8 V DC through isolating barrier
Power consumption	≤ 1.2 mA (damped) > 2.1 mA (undamped)
Load current	not applicable

Electrical specification for mechanical switches

Voltage [V]	Maximum inductive load [A]	Maximum resistance load [A]
125/250 AC	8	8
24 DC	5	5
30 DC	2	5
50 DC	0.7	1
74 DC	0.25	0.6
125 DC	0.03	0.4
250 DC	0.02	0.25

Principle of operation

The duplication rod fitted with 2 cams moves when the valve opens or closes: the movement of a cam past the switch associated with it activates the latter.

When the switch is activated, the light, if there is one, comes on (or goes off on the NAMUR versions) and an electrical signal is transmitted remotely.

This signal is transmitted in accordance with the NAMUR standard on one version of the 1062 ATEX.



Target switch and cam for open valve



Target switch and cam for close valve

Ordering information for process valve system with electrical position feedback

A complete process valve system consists of an electrical position feedback Type 1062 and a process valve Type 20xx.

The following information is necessary for the selection of a complete system:

• **Item no.** of the desired electrical position feedback **Type 1062** (see Ordering chart on p. 4)

• **Item no.** of the selected process valve **Type 20xx**

(see separate datasheet for e.g. Types 2000, 2012, 2030 and 2031)

You order two components and receive a complete assembled and certified valve.

When you click on the orange box "More info." below, you will come to our website for the resp. product where you can download the datasheet.

Example for process valve systems

Electrical position feedback Type 1062



Desired process valve, example



More info.
2000
Angle-seat
valve



More info.
2012
Globe
valve



More info.
2031
Diaphragm
valve

Complete process valve system



**Valve system
On/Off Classic
Type 8803-YA
2000 + 1062**



**Valve system
On/Off Classic
Type 8803-GA
2012 + 1062**



**Valve system
On/Off Classic
Type 8803-DB
2031 + 1062**

Ordering chart electrical position feedback Type 1062 (actuator size 40-125mm)

Feedback with mechanical switches (change-over contact for UC)

Status	for pneumatic stroke actuator			for pneumatic rotary actuator		
	Actuator size Ø [mm]	Item no. (12-48 V DC/AC)	Item no. (110-250 V DC/AC)	Actuator size Ø [mm]	Item no. (12-48 V DC/AC)	Item no. (110-250 V DC/AC)
closed	40	444 182	444 185	-	-	-
open	40	444 181	444 184	-	-	-
open/closed	40	444 183	444 186	-	-	-
closed	50-80	007 461	005 409	63	431 477	431 489
open	50-80	007 462	005 415	63	431 476	431 488
open/closed	50-80	007 463	005 416	63	431 478	431 490
closed	100-125	007 464	007 458	100	431 480	431 492
open	100-125	007 465	007 459	100	431 479	431 491
open/closed	100-125	007 466	007 460	100	431 481	431 493

Feedback with induction switches (normally open contacts for DC)

Status	for pneumatic stroke actuator			for pneumatic rotary actuator		
	Actuator size Ø [mm]	Item no. with 3-wire technology 10-30 V DC	Item no. double limit switch 10-30 V DC	Item no. double limit switch Namur (EExi) 8 V DC	Actuator size Ø [mm]	Item no. 10-30 V DC
closed	40	444 188	560 407	560 411	-	-
open	40	552 653			-	-
open/closed	40	444 189			-	-
closed	50-80	005 422	560 408	560 412	63	431 501
open	50-80	005 434			63	431 500
open/closed	50-80	005 461			63	431 502
closed	100-125	007 467	560 409	560 413	100	431 504
open	100-125	007 468			100	431 503
open/closed	100-125	007 469			100	431 505

Further versions on request

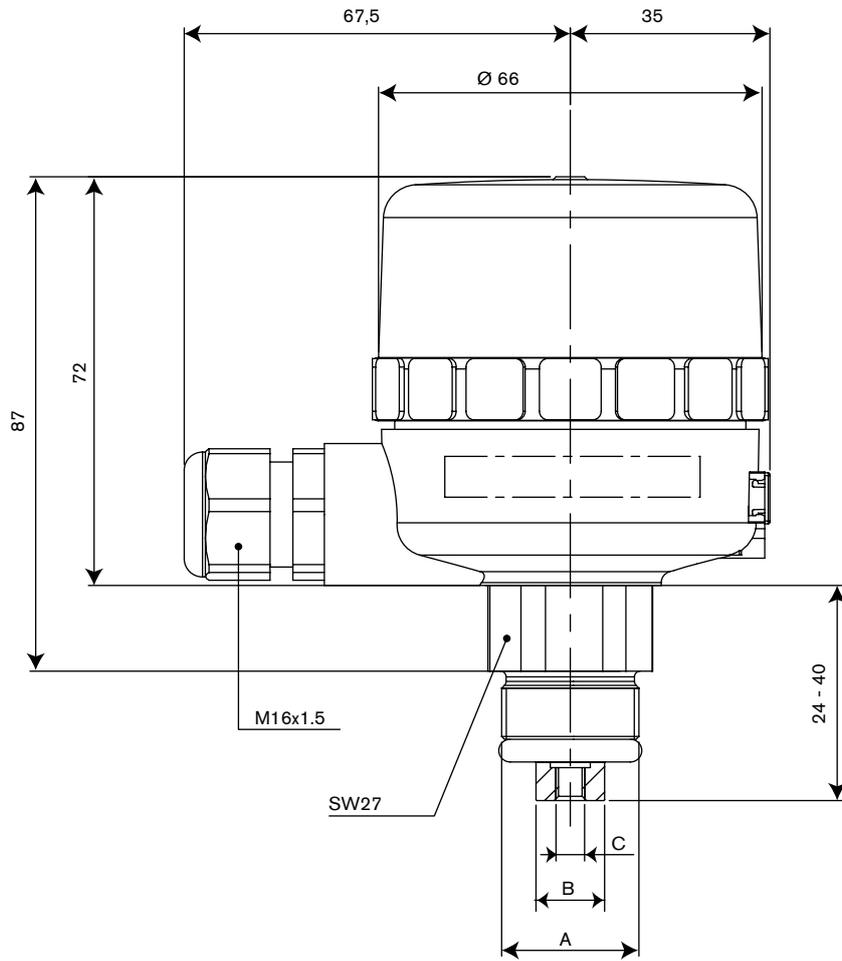
 **Electrical connection**
4-pole M12 cable plug

 **Voltage**
12-30 V DC; 48/110 V DC/AC (mechanical limit switch version)

 **Materials**
PPS body and PSU cover
Mechanical limit switch with contact in gold

 **Additional**
Inductive limit switch with output NPN

Dimensions [mm]



Actuator size	A	B	C
Ø 40	M24 x 1.5	12	M5
Ø 50, 63 and 80	M26 x 1.5	10	M6
Ø 100 and 125	M36 x 2	16	M10

DTS 1000010949 EN Version: F Status: RL (released | freigegeben | validé) printed: 05.10.2009

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0910/3_EU-en_00891646