



## 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

<b>Material</b>	
Body / cover	PA6/PC
Seal (body/cover)	EPDM
Cable gland	PA or PVDF
Guide piece	Brass or stainless steel
Spindle	Brass and stainless steel
<b>Electrical connection</b>	Terminal strip with cable screwing M16x1.5, cable-Ø between 5 and 7 mm, wire profile max. 1 mm <sup>2</sup>
<b>Ambient temperature</b>	-20 to +60°C (operation and storage) [for CSA version : 0 to +60°C (operation and storage)]
<b>Relative humidity</b>	≤ 80%, without condensation
<b>Protection class</b>	IP65 with mounted and tightened connectors and tightly fixed electronic module cover
<b>Approval</b>	Limit switches acc. to VDE, IEC, UL 61010-1, CSA C22.2 n°61010-1-04, inductive limit switch in EExi (intrinsically safe) acc. to II 2 GD EEx ia II C T6, T5 or T4-T1
<b>Mounting</b>	on piston actuator with actuator size Ø 40-125 mm
<b>Installation</b>	As required

### Mechanical limit switch (per limit switch)

<b>Number of limit switches</b>	1 or 2
<b>Output version</b>	Change-over contact (open and /or closed) in silver or gold
<b>Status</b>	Open, closed or open/closed, supply voltage Control lamp (LED) : green, red, orange and electrical feedback
<b>Power supply</b>	12-48 V DC/AC; [for CSA version : 12-30 V AC / 12-48 V DC]
<b>Power consumption (per limit switch)</b>	< 35 mA (48 V DC)
<b>Load current (per limit switch)</b>	see table on next page
<b>Voltage drop</b>	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
Specific technical data : switch with CSA approval	
Degree of pollution	2
Category of installation	I
Altitude max.	2000 m
Power supply	through power source (SELV)

### Electrical specification for mechanical switches

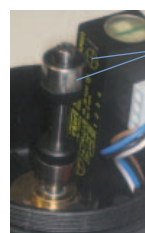
Voltage [V]	Maximum inductive load [A]	Maximum resistance load [A]
24 DC	5	5
30 DC	2	5
50 DC	0.7	1
74 DC	0.25	0.6

### 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 data sheet 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**



2000  
Angle-seat  
valve

More info.



2012  
Globe  
valve

More info.



2031  
Diaphragm  
valve

More info.

**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. CSA approval (12-30 V AC / 12-48 V DC)	Actuator size Ø [mm]	Item no. (12-48 V DC/AC)
closed	40	444 182	-	-	-
open	40	444 181	-	-	-
open/closed	40	444 183	562 568	-	-
closed	50-80	007 461	-	63	431 477
open	50-80	007 462	-	63	431 476
open/closed	50-80	007 463	562 566	63	431 478
closed	100-125	007 464	-	100	431 480
open	100-125	007 465	-	100	431 479
open/closed	100-125	007 466	562 567	100	431 481


### 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 CSA approval 10-30 V DC	Item no. double limit switch Namur (EEExi) 8 V DC	Actuator size Ø [mm]	Item no. 10-30 V DC
closed	40	444 188	560 407	562 563	560 411	-	-
open	40	552 653				-	-
open/closed	40	444 189				-	-
closed	50-80	005 422	560 408	562 564	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	562 565	560 413	100	431 504
open	100-125	007 468				100	431 503
open/closed	100-125	007 469				100	431 505

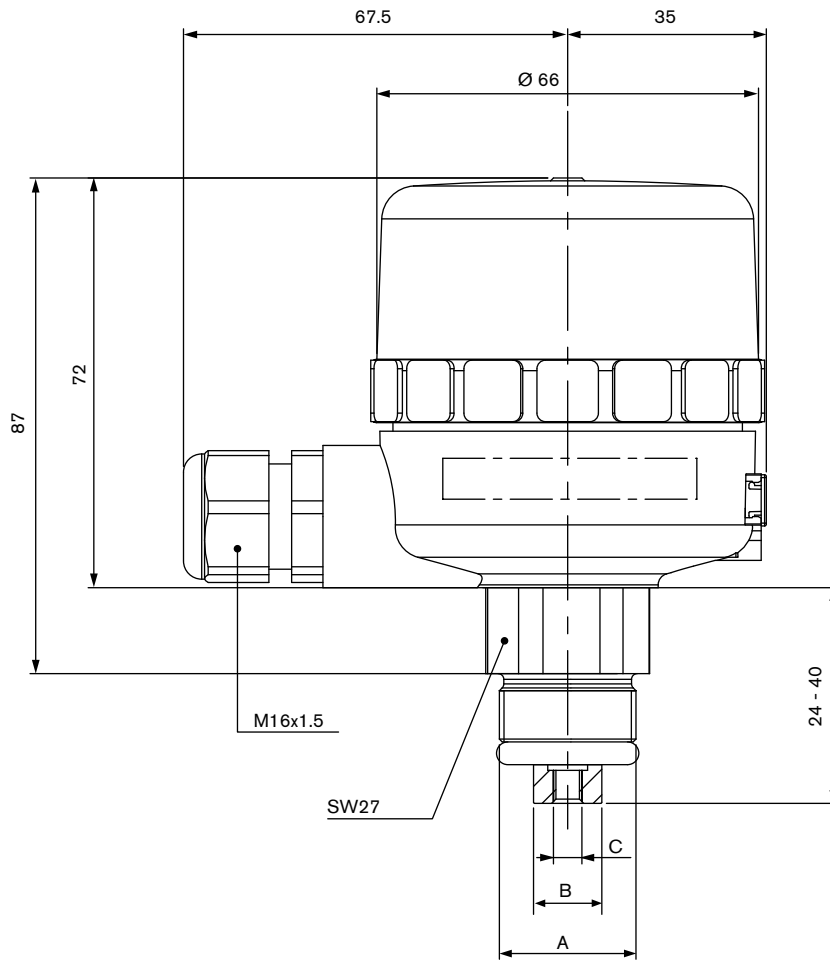
#### Further versions on request

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

 **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

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