The 17 series non-contact absolute position transducer is specially designed for hydraulic cylinder to provide precise, direct and absolute position feedback. Hydraulic body is made by stainless steel; it can be inserted directly into hydraulic cylinder. Electronic component and hydraulic body are modular design which can be detached easily.

The transducer is rated for IP65 which offers full protection against outside agents for use in harsh environments with high contamination and presence of dust. The connector is common for use in hydraulic device and easy for field connection. Besides for hydraulic system, it is also suitable for machine installation. The absence of electrical contact eliminates all wear and guarantees almost unlimited mechanical life expectancy.



Specifications

Order Code	
Output	

Measurement Type
Resolution
Input Voltage
Input Protection
Current Consumption
Dielectric Strength
Repeatability
Non-Linearity
Update Time
Operation Temp.
Sealing
Vibration Rating
Shock Rating
EMC

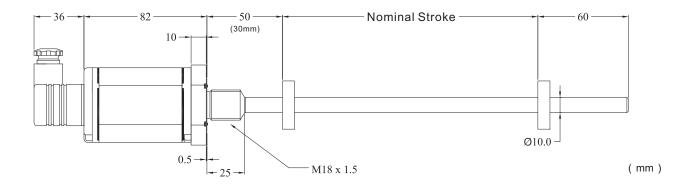
Pressure Rating	
Mounting	
Housing Material	

170	171	172	174	175	173
0 - 1 0 V 1 0 - 0 V	0 - 2 0 m A	20-0 m A	4 - 2 0 m A	20-4 m A	Start/Stop
		Line	ar displaceme	nt	
	Infinite, re	estricted by out	tput ripple		0.1 / 0.01 / 0.005mm
		+24Vd	lc (20.4 - 28.8)	Vdc)	
Polarity protection up to -30Vdc, Over voltage protection up to 36Vdc					
		50-140mA (stroke range d	ependent)	
		500Vdc (DC g	ground to mach	nine ground)	
		< ±0.0	005% of full so	cale	
< ±0.02% of full scale (minimum ±90μm)					
	0.5	ms up to 1200) mm / 1.0 ms	up to 2500 mm	
		40 to 75℃, Hu	umility 90% no	n-condensing	
IP65 (with 4 pin connector) / IP67 (with D60 and M12 connectors)					
		15g / 10-2000)Hz / IEC stan	dard 68-2-6	
100g single hit per IEC standard 68-2-27					
Emission EN 61000-6-3, Immunity EN 61000-6-2					
EN 61000-4-2/3/4/6					
350 bar / 600 bar peak					
M18 x 1.5					
Anodized aluminum sensor cartridge, Stainless steel tube and flange, Plastic cartridge cover					

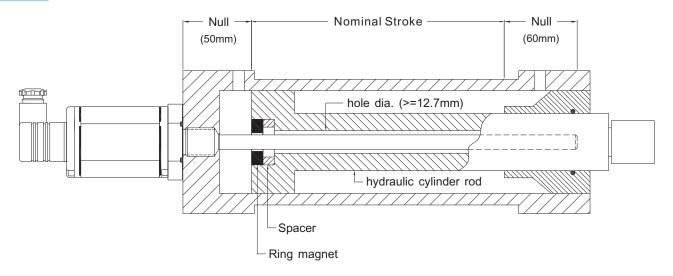




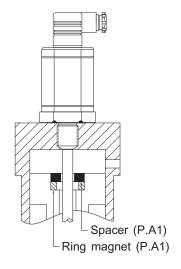
Dimension



Installation



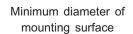
Magnet installation

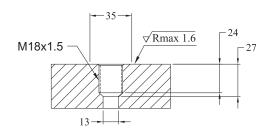


Remarks:

Mounting screw must be made of non-magnetizable materials. If cylinder is made of magnetizable materials, ring spacer must be installed

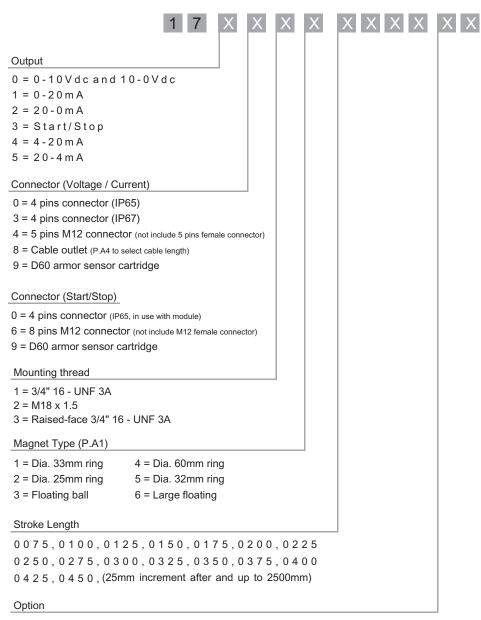
Mounting surface requirement





Installation hole must be perpendicular with mounting surface and center with sensor rod.

Order Code



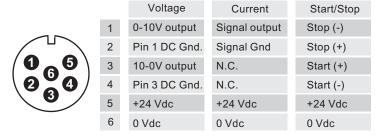
BF = 30mm front dead zone

Sensor cartridge replacment



to choose from.

Wiring



	Cable	Voltage	Current
1	Black	0-10V Output	Signal Output
2	White	Pin 1 DC Gnd	Signal Gnd
3	Yellow	10-0V Output	N.C.
4	Green	Pin 3 DC Gnd	N.C.
5	Red	+24 Vdc	+24 Vdc
6	Blue	0 Vdc	0 Vdc

D60 connector (View toward sensor pins)

		voitage	Current
-15	1	+24Vdc	+24Vdc
	2	0-10V output	Signal output
$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	3	0 Vdc	0 Vdc
0	4	10-0V output	N.C.
	5	DC Gnd	Signal Gnd

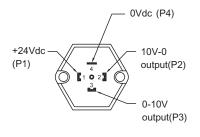
5 pins M12 connector (View toward sensor pins)

	1	Start (+)
2 0	2	Start (-)
8 8 0	3	Stop (+)
4 6	4	Stop (-)
	5	N.C.
	6	N.C.
	7	+24 Vdc
	8	0Vdc

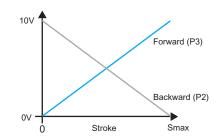
Start /Stop

8 pins M12 (View toward sensor pins)

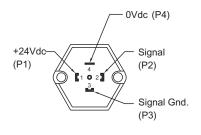
Analog voltage



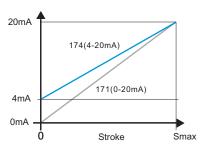




Analog current







Start/Stop digital output

