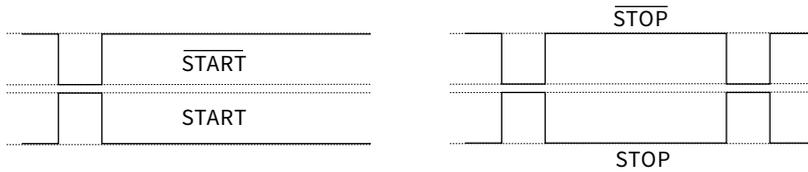




CH2-Start/Stop

CH2 Series **Data Sheet**



- + Durust: fully enclosed design with maximum IP69K protection
- + Easy to use, standard signal output, maintenance-free
- + Non-contact measurement, no attrition
- + Start/Stop digital pulse output
- + Max. temperature resistance of electronics housing up to 120 °C , widely used in metallurgical industry



Input	Measured data	Position
	Measurement range	50...4500mm
Output	Digital	Start/Stop pulse
Resolution	Resolution	Depends on controller
	None-Linearity	$< \pm 0.02\% \text{F.S. (min. } \pm 50\mu\text{m)}$
	Repeatability	$< \pm 0.002\% \text{F.S. (min. } \pm 20\mu\text{m)}$
	Update time	Depends on controller
	Temperature coefficient	$< 30\text{ppm}/^\circ\text{C}$
Mounting	Mounting position	Any
	Thread	Metric M18x1.5, metric M20x1.5, 3/4"-16UNF-3A
Design/ Material	Electronics housing	Stainless steel 304
	Measuring rod	Stainless steel 304/316L
	Operating pressure ratings	35MPa (continuous) ,70MPa (peak)
Electrical connection	Wiring connection	Straight out cable or 6 pin M16 aviation plug
	Operating voltage	9VDC~36VDC
	Polarity protection	Up to -36VDC
	Overvoltage protection	Up to +36VDC
	Power consumption	$< 80\text{mA}$ (varies with range size)
	Dielectric strength	500 VDC (DC ground to machine ground)
Operating conditions	Magnet velocity	Any
	Operating temperature	-40...120°C
	Humidity	90 % relative humidity, no condensation
	Ingress protection	IP67 (when connector is fitted)/IP68 (straight out cable) IP69K(special customization)
	Shock	100 g (single shock) IEC standard 60068-2-27
	Vibration	15g/10...2000 Hz, IEC standard 60068-2-6 (resonant frequencies excluded)
	EMC	Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2

ITEM

CATEGORY

PARAMETER

TECHNICAL PARAMETER

TECHNOLOGY PERCEIVES THE FUTURE

CH2- ____ - **RP** - ____
 CH2- ____ - **RT** - ____

Straight out cable

Color	● Grey	● Pink	● Yellow	● Green	● Brown	○ White
Function	Stop -	Stop +	Start+	Start-	9VDC~36VDC	0 VDC(GND)

CH2- ____ - **D616** - ____

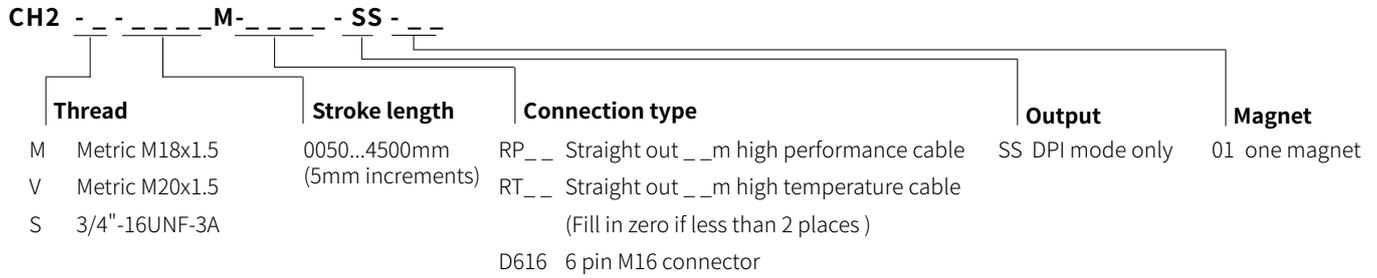
6 pin M16 connector

PIN-Male	1	2	3	4	5	6
Function	Stop -	Stop +	Start+	Start-	9VDC~36VDC	0 VDC(GND)

View on sensor

ORDER CODE

TECHNOLOGY PERCEIVES THE FUTURE

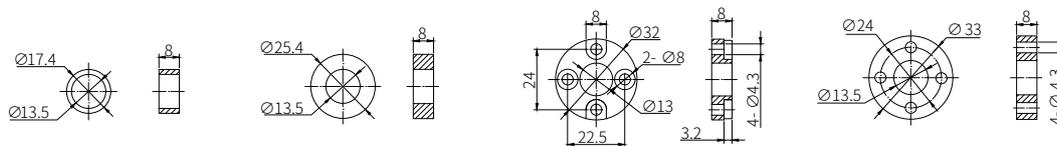


Model selection | Model: CH2-M-0800M-RP05-SS-01

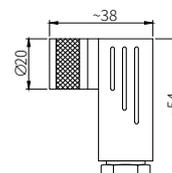
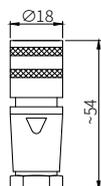
Explanation: CH2 series, integrated pressure resistance outer tube type, mounting thread metric M18x1.5, stroke length 800mm, straight out 5m high performance cable, Start/Stop output, DPI mode only, single magnet.

PARTS SELECTION

TECHNOLOGY PERCEIVES THE FUTURE



Name	Ring magnet	Ring magnet	Ring magnet	Ring magnet
Operating temperature	-40...125°C			
Order code	12-1032	12-1019	12-1024	12-1001
Fitting non-permeable gasket				
Name	Non-permeable gasket	Non-permeable gasket	Non-permeable gasket	Non-permeable gasket
Operating temperature	-40...125°C			
Order code	12-1037	12-1021	12-1025	12-1008



Name	6 pin M16 female connector	6 pin M16 female connector (90 degree angle)
End view drawing		
Material	Galvanized nickel	
Fitting diameter	6...8mm	6...8mm
Connection	Welding	
Order code	18-3001	18-3003

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